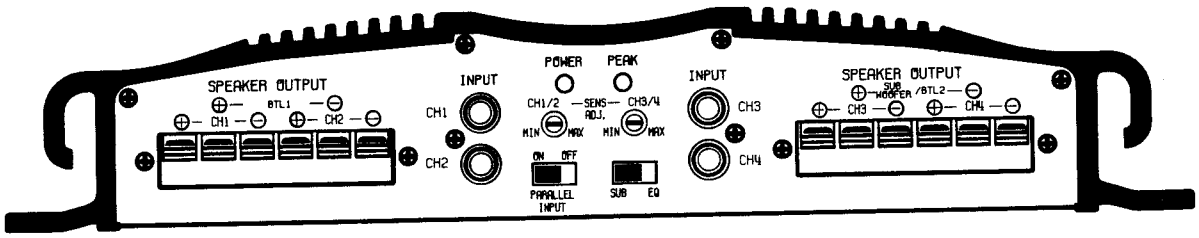
SERVICE MANUAL

XAT-300Q
XAT-400Q
CAR STEREO AMPLIFIER



■ CONTENTS

Specifications 2
Block Diagram 3
Top & Bottom View of P.C Boards
1. POWER SUPPLY P.C. BOARD (ALL MODEL) 5
2. FRONT P.C. BOARD (ALL MODEL) 9
3. AMP. P.C. BOARD (XAT-300Q) 9
4. AMP. P.C. BOARD (XAT-400Q) 13
Electrical Parts List (XAT-300Q) 17
Electrical Parts List (XAT-400Q) 23
Exploded View Part List of Chassis (XAT-300Q) 29
Exploded View Part List of Chassis (XAT-400Q) 31
Point to Point Wiring Diagram (XAT-300Q) 33
Point to Point Wiring Diagram (XAT-400Q) 35
Schematic Diagram (XAT-300Q/XAT-400Q) 37
Schematic Diagram (XAT-300Q) 39
Schematic Diagram (XAT-400Q) 41

Sherwood

Specifications

1. XAT-300Q Only Item

Output Power (Watts)/CH into 4ohms	
@ 20Hz~30kHz, 0.1% THD	90W
@ 1kHz, 10% THD	100W
Output Power/BTL CH into 4ohms	
@ 1kHz, 0.5% THD	250W
Frequency Response, −3dB @ 1W	10Hz~50kHz
SUB Bass EQ. Response @ 60Hz	8±2dB
Signal to Noise Ratio (IHF A), WTD/UNWTD	100/90dB
Minimum Noise Level (IHF A), WTD/UNWTD	1.5/6.5mV
Input Sensitivity for 35W Output, 1KHz 0.1% THD	
@ HIGH SENS./10K ohms	250mV
@ LOW SENS./10K ohms	2.5V
Maximum Current Consumption/BTL @ 40HMz, 0.5% THD	
Minimun Noise Level (IHF "A" WTD/UNWTD)	1.5/6.5mV
Operating Voltage	DC10.8~15.6V
Speaker Impedance	2~8 ohms
Dimension (W × H × D)	322 × 57 × 460mm
Net Weight	6.5 Kg
Fuse, Main	25A × 2

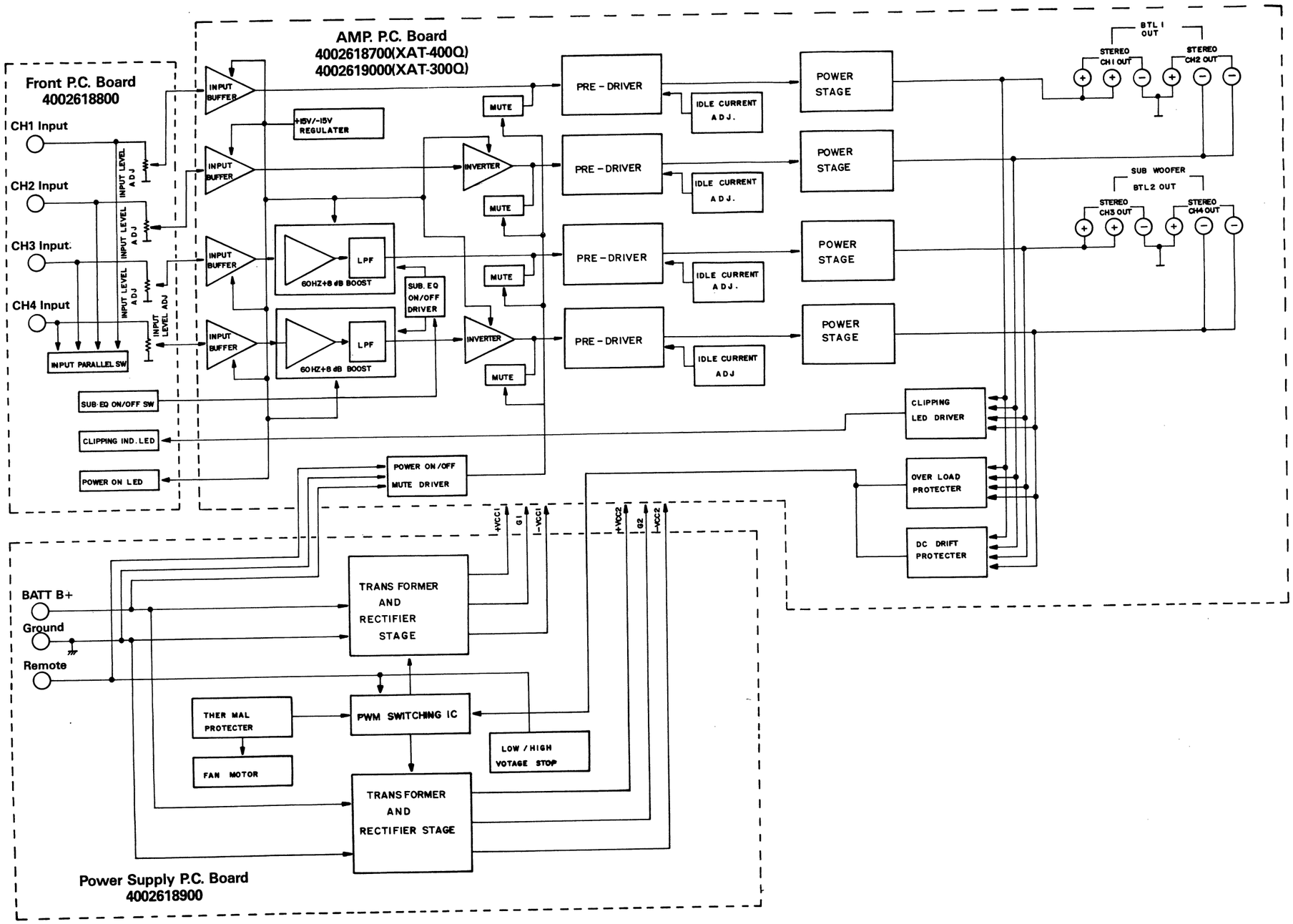
2. XAT-400Q Only Item

Output Power (Watts)/CH into 4ohms	
@ 20Hz~30kHz, 0.1% THD	120W
@ 1kHz, 10% THD	150W
Output Power/BTL CH into 4ohms	
@ 1kHz, 0.5% THD	350W
Frequency Response, −3dB @ 1W	10Hz~50kHz
SUB Bass EQ. Response @ 60Hz	8±2dB
Signal to Noise Ratio (IHF A), WTD/UNWTD	100/90dB
Minimum Noise Level (IHF A), WTD/UNWTD	1.5/6.5mV
Input Sensitivity for 35W Output, 1KHz 0.1% THD	
@ HIGH SENS./10K ohms	250mV
@ LOW SENS./10K ohms	2.5V
Operating Voltage	DC10.8~15.6V
Speaker Impedance	2~8 ohms
Dimension (W×H×D)	332×57×560mm
Net Weight	7.1 Kg
Fuse, Main	30A×2

Note: Design & speccification subject to change without notice for improvements.

Block Diagram

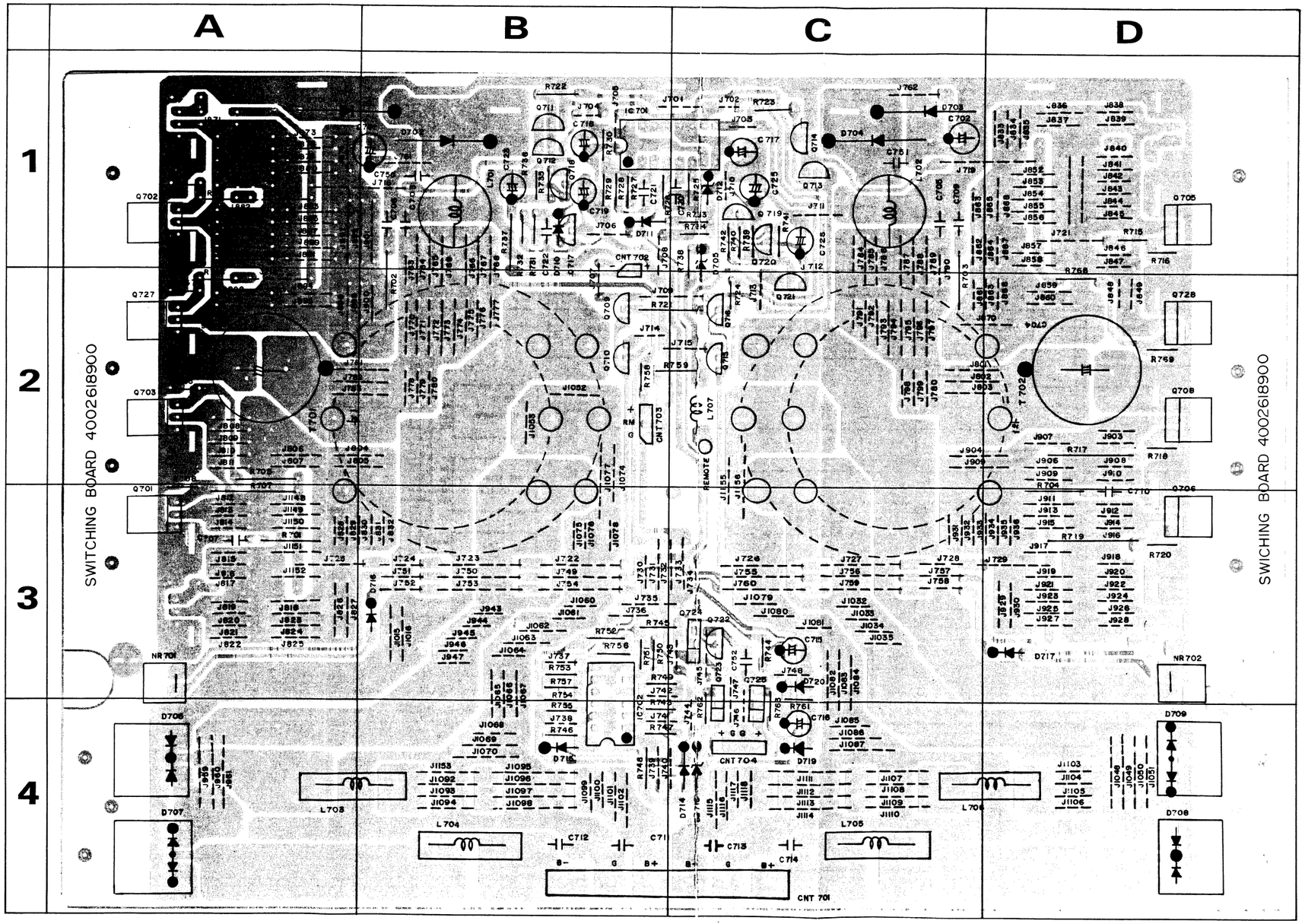
Model No.: XAT-300Q
XAT-400Q



Top & Bottom View of P.C. Board

1. POWER SUPPLY P.C. BOARD 4002618900 (ALL MODEL)

– TOP VIEW –



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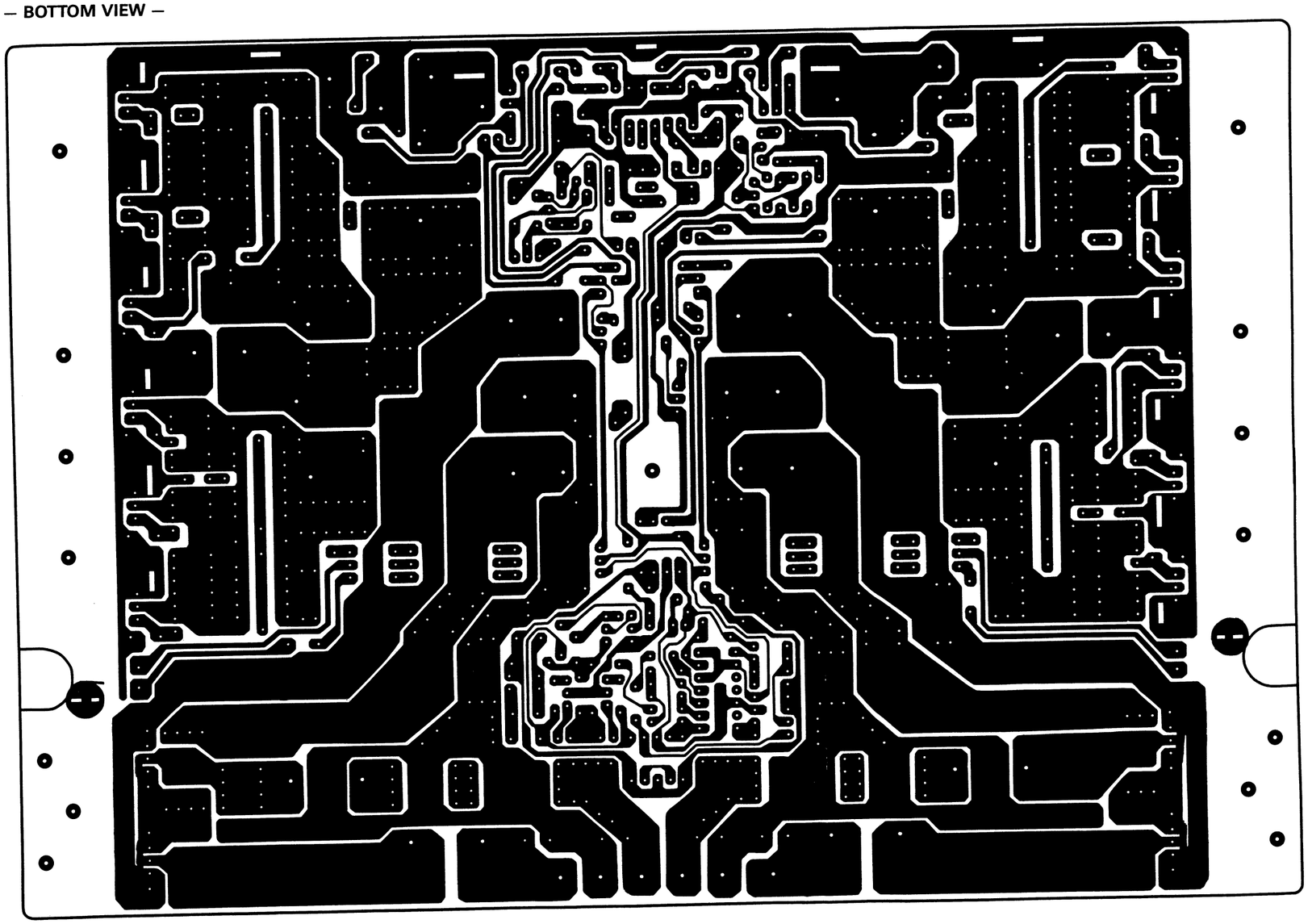
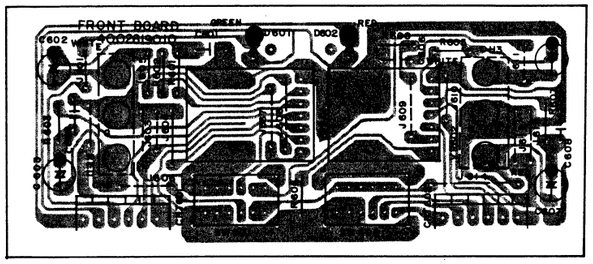
— BOTTOM VIEW —

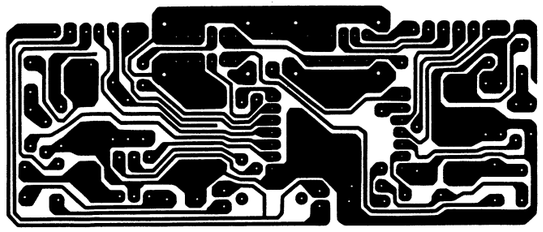


2. FRONT P.C. BOARD 4002619010 (ALL MODEL)

— TOP VIEW —

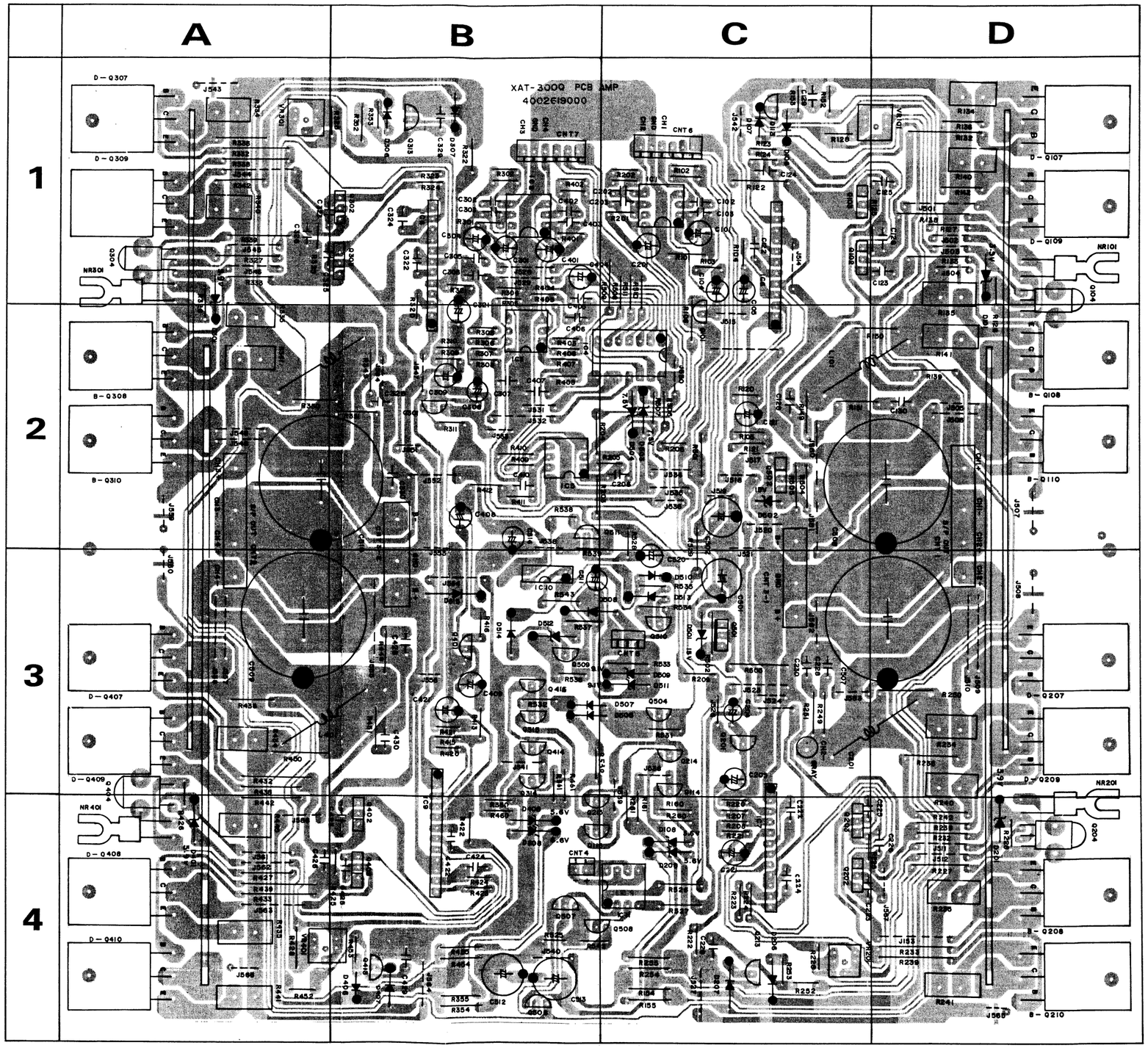


— BOTTOM VIEW —



3. AMP. P.C. BOARD 4002619000 (XAT-300Q)

— TOP VIEW —



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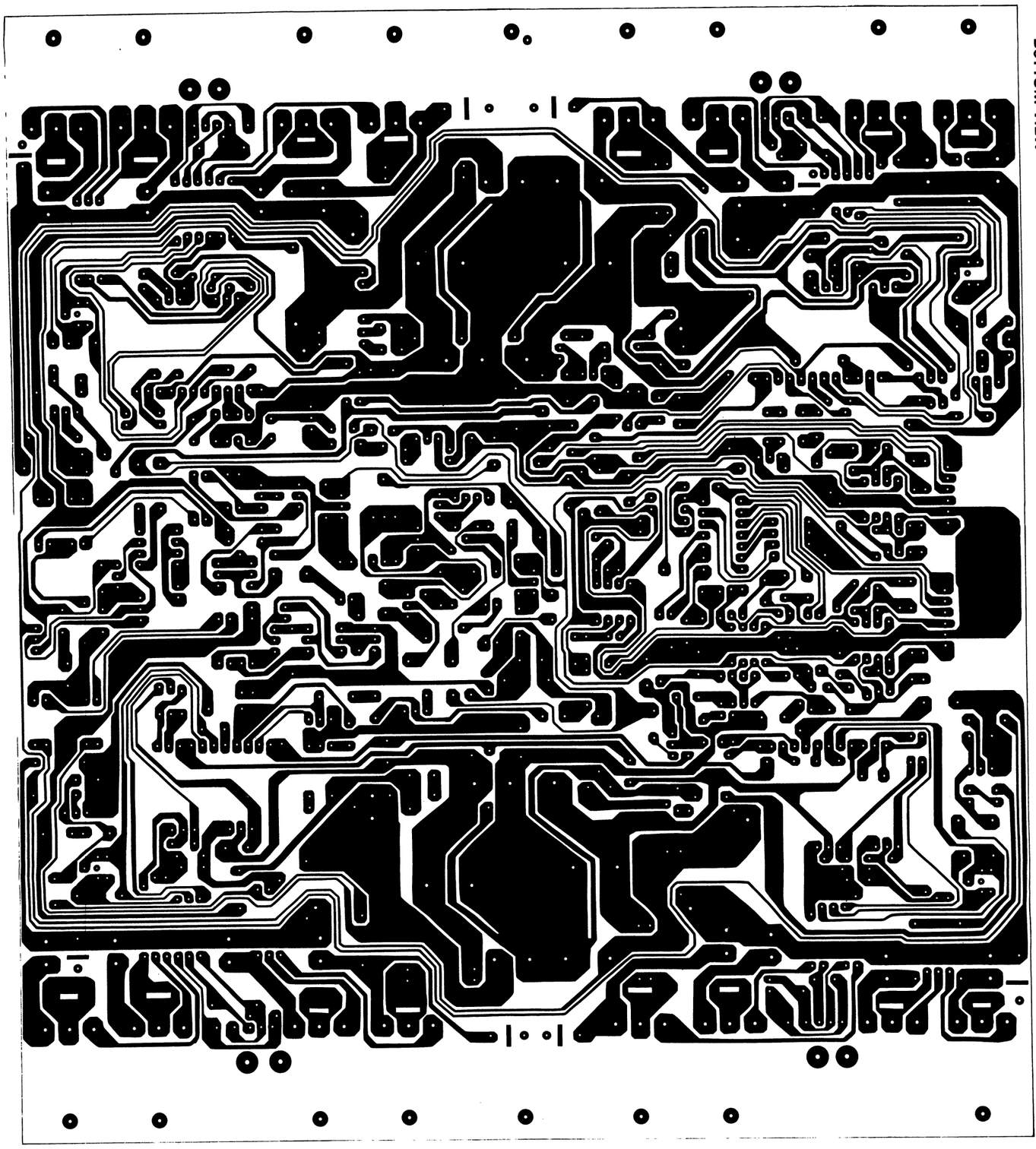
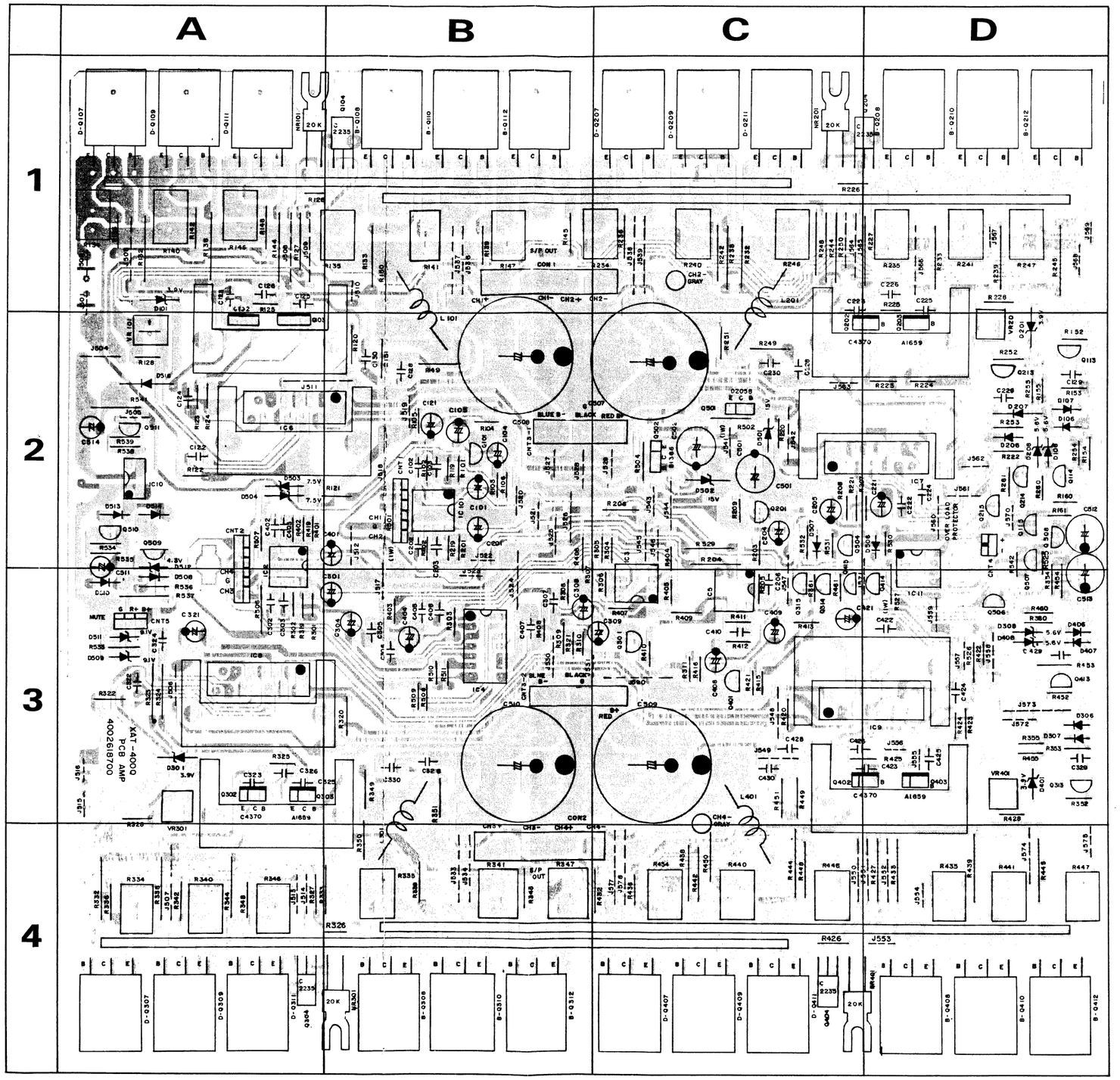
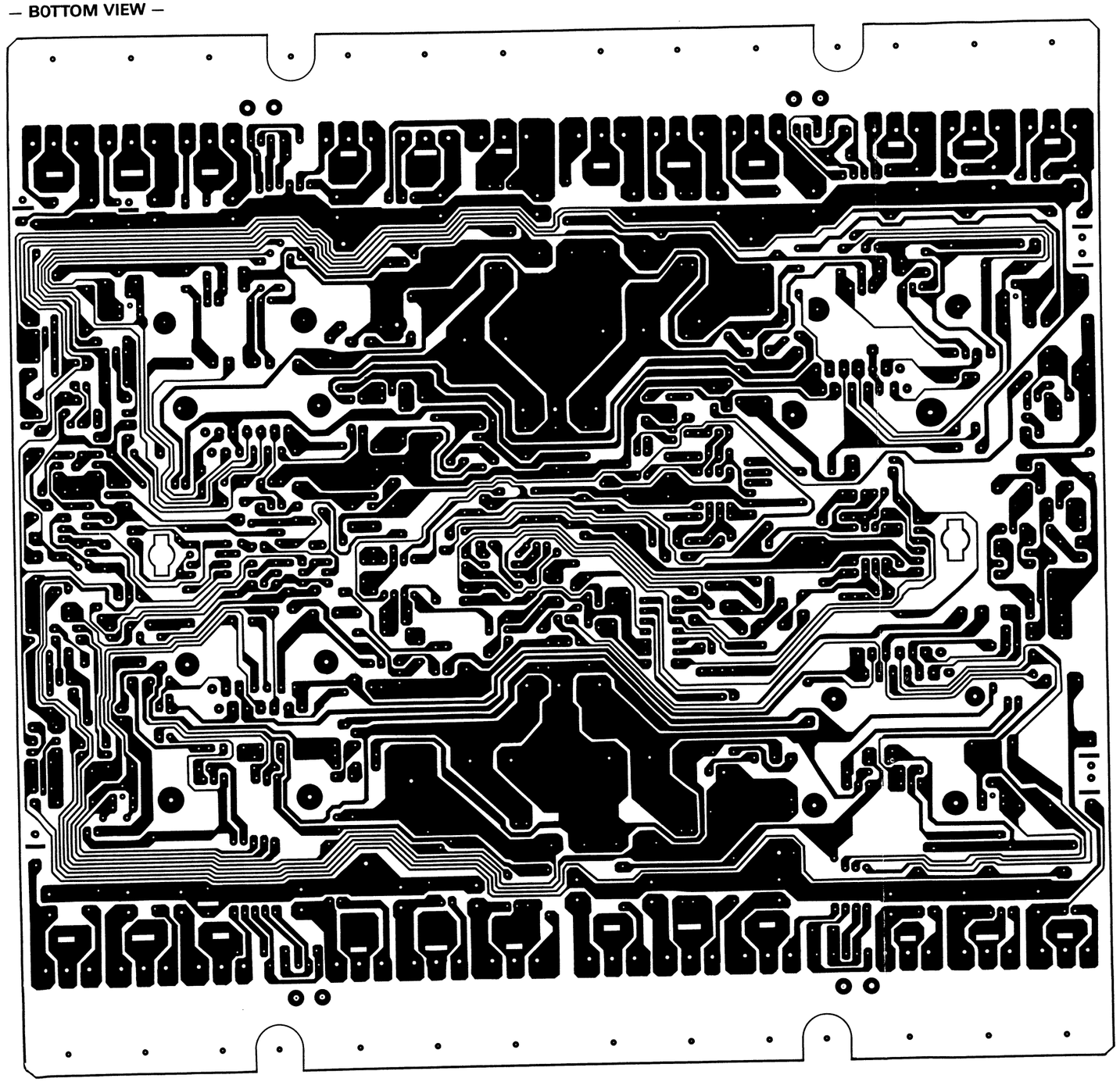


4. AMP. P.C. BOARD 4002618700 (XAT-400Q)

— TOP VIEW —



— BOTTOM VIEW —



Electrical Parts List (XAT-300Q)

Ref. No	Part No.	Description	Position
Ass'y P.C.B. Amp.			
• Integrated Circuit			
IC1	2168000114	MC4558DD, Dual OP-Amplifier	A3
IC2	2168000114	MC4558DD, Dual OP-Amplifier	A2
IC3	2168000114	MC4558DD, Dual OP-Amplifier	B2
IC4	2138001101	GD4066B, Quad Analog Switching	B3
IC5	2168000114	MC4558DD, Dual OP-Amplifier	B2
IC6	2168013115	μPC1270, 50 to 80W Power Amp. Driver	A3
IC7	2168013115	μPC1270, 50 to 80W Power Amp. Driver	D3
IC8	2168013115	μPC1270, 50 to 80W Power Amp. Driver	A2
IC9	2168013115	μPC1270, 50 to 80W Power Amp. Driver	D2
IC10	2108000104	PC 17T-1, Photocouplers 1-CH	C2
IC11	2108000208	PC 17T-2, Photocouplers 2-CH	D3
• Transistors			
Q101	2208606112	NPN KTD 1302(B) Silicon KEC	B3
Q102	2028406132	NPN KTC 4370 Silicon KEC	A4
Q103	2028106112	PNP KTA 1659(Y) Silicon KEC	A4
Q104	2028406120	NPN KTC 2235(Y) Silicon KEC	A4
Q105,Q106		Not used	
Q107	2028407109	NPN KTD 718(O) Silicon KEC	A4
Q108	2028107106	PNP KTB 688(O) Silicon KEC	B4
Q109	2028407109	NPN KTD 718(O) Silicon KEC	A4
Q110	2028107106	PNP KTB 688(O) Silicon KEC	B4
Q111,Q112		Not used	
Q113	2208606104	NPN KTC 3198(Y) Silicon KEC	A3
Q114	2208606104	NPN KTC 3198(Y) Silicon KEC	D3
Q115	2208606104	NPN KTC 3198(Y) Silicon KEC	D3
Q116~Q200		Not used	
Q201	2208606112	NPN KTD 1302(B) Silicon KEC	C3
Q202	2028406132	NPN KTC 4370 Silicon KEC	D3/4
Q203	2028106112	PNP KTA 1659(Y) Silicon KEC	D3/4
Q204	2028406120	NPN KTC 2235(Y) Silicon KEC	D4
Q205,Q206		Not used	
Q207	2028407109	NPN KTD 718(O) Silicon KEC	C4
Q208	2028107106	PNP KTB 688(O) Silicon KEC	D4
Q209	2028407109	NPN KTD 718(O) Silicon KEC	C4
Q210	2028107106	PNP KTB 688(O) Silicon KEC	D4
Q211,Q212		Not used	
Q213	2208606104	NPN KTC 3198(Y) Silicon KEC	D3
Q214	2208606104	NPN KTC 3198(Y) Silicon KEC	C3
Q215	2208606104	NPN KTC 3198(Y) Silicon KEC	D3
Q216~Q300		Not used	
Q301	2208606112	NPN KTD 1302(B) Silicon KEC	B2
Q302	2028406132	NPN KTC 4370 Silicon KEC	A2
Q303	2028106112	PNP KTA 1659(Y) Silicon KEC	A2
Q304	2028406120	NPN KTC 2235(Y) Silicon KEC	A1
Q305,Q306		Not used	
Q307	2028407109	NPN KTD 718(O) Silicon KEC	A1
Q308	2028107106	PNP KTB 688(O) Silicon KEC	B1
Q309	2028407109	NPN KTD 718(O) Silicon KEC	A1
Q310	2028107106	PNP KTB 688(O) Silicon KEC	B1
Q311,Q312		Not used	
Q313	2208606104	NPN KTC 3198(Y) Silicon KEC	A2
Q314	2208606104	NPN KTC 3198(Y) Silicon KEC	C/D2
Q315	2208606104	NPN KTC 3198(Y) Silicon KEC	C2
Q316~Q400		Not used	
Q401	2208606112	NPN KTD 1302(B) Silicon KEC	C2
Q402	2028406132	NPN KTC 4370 Silicon KEC	D2
Q403	2028106112	PNP KTA 1659(Y) Silicon KEC	D2
Q404	2028406120	NPN KTC 2235(Y) Silicon KEC	D1
Q405,Q406		Not used	
Q407	2028407109	NPN KTD 718(O) Silicon KEC	C1
Q408	2028107106	PNP KTB 688(O) Silicon KEC	D1
Q409	2028407109	NPN KTD 718(O) Silicon KEC	C1
Q410	2028107106	PNP KTB 688(O) Silicon KEC	D1
Q411,Q412		Not used	
Q413	2208606104	NPN KTC 3198(Y) Silicon KEC	D2
Q414	2208606104	NPN KTC 3198(Y) Silicon KEC	C2
Q415	2208606104	NPN KTC 3198(Y) Silicon KEC	C2
Q416~Q500		Not used	
Q501	2028406118	NPN KTD 2058(Y) Silicon KEC	C3
Q502	2028406124	PNP KTB 1366(Y) Silicon KEC	B3
Q503		Not used	
Q504	2208206105	PNP KTA 1266(Y) Silicon KEC	C3
Q505		Not used	
Q506	2208222101	PNP DTA 114Y(S) Silicon ROHM(K)	D2
Q507	2208606104	NPN KTC 3198(Y) Silicon KEC	D2
Q508	2208206105	PNP KTA 1266(Y) Silicon KEC	D3
Q509	2208206105	PNP KTA 1266(Y) Silicon KEC	C2
Q510	2208206105	PNP KTA 1266(Y) Silicon KEC	C3
Q511	2208206105	PNP KTA 1266(Y) Silicon KEC	B2/3
• Diodes			
D101	2258522107	Zener MTZ-3.9B 3.9V/500mW Silicon	A/B4
D102~D105		Not used	
D106,D107	2058322101	Switching 1N4148(M) 60V/500mW Silicon	A3
D108	2258522111	Zener MTZ-5.6B 5.6V/500mW Silicon	D3
D109~D200		Not used	
D201	2258522107	Zener MTZ-3.9B 3.9V/500mW Silicon	D4
D202~D205		Not used	
D206,D207	2058322101	Switching 1N4148(M) 60V/500mW Silicon	D3
D208	2258522111	Zener MTZ-5.6B 5.6V/500mW Silicon	D3
D209~D300		Not used	
D301	2258522107	Zener MTZ-3.9B 3.9V/500mW Silicon	A/B1
D302~D305		Not used	
D306,D307	2058322101	Switching 1N4148(M) 60V/500mW Silicon	A2
D308	2258522111	Zener MTZ-5.6B 5.6V/500mW Silicon	D2
D309~D400		Not used	
D401	2258522107	Zener MTZ-3.9B 3.9V/500mW Silicon	D1
D402~D405		Not used	
D406,D407	2058322101	Switching 1N4148(M) 60V/500mW Silicon	D2
D408	2258522111	Zener MTZ-5.6B 5.6V/500mW Silicon	D2
D409~D500		Not used	
D501,D502	2258522121	Zener MTZ-15B 15V/500mW Silicon	C3
D503,D504	2258522114	Zener MTZ-7.5B 7.5V/500mW Silicon	B3
D505		Not used	
D506~D508	2058322101	Switching 1N4148(M) 60V/500mW Silicon	C2/3
D509	2258522116	Zener MTZ-9.1B 9.1V/500mW Silicon	C3
D510	2058322101	Switching 1N4148(M) 60V/500mW Silicon	C3
D511	2258522116	Zener MTZ-9.1B 9.1V/500mW Silicon	C3
D512	2258522108	Zener MTZ-4.3B 4.3V/500mW Silicon	C2
D513	2058322101	Switching 1N4148(M) 60V/500mW Silicon	C3
D514,D515	2058322101	Switching 1N4148(M) 60V/500mW Silicon	C2

Ref. No	Part No.	Description	Position
• Semi-Fixed Variable Resistors			
VR101	3248010243	RES SEMI 1K(B), EVN-DJAA03B13	A4
VR201	3248010243	RES SEMI 1K(B), EVN-DJAA03B13	D3/4
VR301	3248010243	RES SEMI 1K(B), EVN-DJAA03B13	A1
VR401	3248010243	RES SEMI 1K(B), EVN-DJAA03B13	D1/2
• Negative Thermal Resistors			
NR101	2438203002	20K(B), Thermistor, KT5D24F-C0057	A4
NR201	2438203002	20K(B), Thermistor, KT5D24F-C0057	D4
NR301	2438203002	20K(B), Thermistor, KT5D24F-C0057	A1
NR401	2438203002	20K(B), Thermistor, KT5D24F-C0057	D1
• Coils			
L101	2648602260	Inductor Coil 1.22 μH	B3/4
L201	2648601550	Inductor Coil 1.22 μH	C3/4
L301	2648601550	Inductor Coil 1.22 μH	B1/2
L401	2648601550	Inductor Coil 1.22 μH	C1/2
• Capacitors			
C101	3479210121	Electrolytic 100 μF 10V SA M	A3
C102	3519101935	Ceramic 100 pF 50V AXIAL J	A3
C103	3519681935	Ceramic 680 pF 50V AXIAL J	A3
C104	3479210071	Electrolytic 10 μF 50V SA M	A3
C105	3479210071	Electrolytic 10 μF 50V SA M	A3
C106~C120		Not used	
C121	3479210121	Electrolytic 100 μF 10V SA M	B3
C122	3519150935	Ceramic 15 pF 50V SA J	A3
C123	3519101935	Ceramic 100 pF 50V AXIAL J	A4
C124	3519473935	Ceramic 0.047 μF 50V AXIAL J	A3
C125	3519101935	Ceramic 100 pF 50V AXIAL J	A4
C126	3519473935	Ceramic 0.047 μF 50V AXIAL J	A4
C127		Not used	
C128	3519223520	Ceramic 0.022 μF 25V AXIAL J	B3
C129	3679224297	*Mylar 0.22 μF 63V MINI K	A3
C130	3679473120	Mylar 0.047 μF 100V J	B4
C129~C200		Not used	
C201	3479210121	Electrolytic 100 μF 10V SA M	A3
C202	3519101935	Ceramic 100 pF 50V AXIAL J	A3
C203	3519681935	Ceramic 680 pF 50V AXIAL J	A3
C204	3479210071	Electrolytic 10 μF 50V SA M	C3
C205	3479210071	Electrolytic 10 μF 50V SA M	C3
C206	3519560935	Ceramic 56 pF 50V AXIAL J	B3
C207~C220		Not used	
C221	3479210121	Electrolytic 100 μF 10V SA M	D3
C222	3519150935	Ceramic 15 pF 50V AXIAL J	D3
C223	3519101935	Ceramic 100 pF 50V AXIAL J	D4
C224	3519473935	Ceramic 0.047 μF 50V AXIAL J	D3
C225	3519101935	Ceramic 100 pF 50V AXIAL J	D4
C226	3519473935	Ceramic 0.047 μF 50V AXIAL J	D4
C227		Not used	
C228	3519223520	Ceramic 0.022 μF 25V AXIAL J	C3
C229	3679224297	Mylar 0.22 μF 63V MINI K	D3
C230	3679473120	Mylar 0.047 μF 100V J	C3
C229~C300		Not used	
C301	3479210121	Electrolytic 100 μF 10V SA M	A2
C302	3519101935	Ceramic 100 pF 50V AXIAL J	A2
C303	3519181935	Ceramic 180 pF 50V AXIAL J	A2
C304	3479210071	Electrolytic 10 μF 50V SA M	A2
C305	3679223120	Mylar 0.022 μF 100V J	A2
C306	3679223120	Mylar 0.022 μF 100V J	A2
C307	3679224297	Mylar 0.22 μF 63V MINI K	B2
C308	3479210071	Electrolytic 10 μF 50V SA M	B2
C309	3479210071	Electrolytic 10 μF 50V SA M	B2
C310~C320		Not used	
C321	3479210121	Electrolytic 100 μF 10V SA M	A/B2
C322	3519150935	Ceramic 15 pF 50V AXIAL J	A2
C323	3519101935	Ceramic 100 pF 50V AXIAL J	A1
C324	3519473935	Ceramic 0.047 μF 50V AXIAL J	A2
C325	3519101935	Ceramic 100 pF 50V AXIAL J	A1
C326	3519473935	Ceramic 0.047 μF 50V AXIAL J	A1
C327		Not used	
C328	3519223520	Ceramic 0.022 μF 25V AXIAL J	B2
C329	3679224297	Mylar 0.22 μF 63V MINI K	A2
C330	3679473120	Mylar 0.047 μF 100V J	B2
C331~C400		Not used	
C401	3479210121	Electrolytic 100 μF 10V SA M	A2
C402	3519101935	Ceramic 100 pF 50V AXIAL J	A2
C403	3519181935	Ceramic 180 pF 50V AXIAL J	A2
C404	3479210071	Electrolytic 10 μF 50V SA M	A2/3
C405	3679223120	Mylar 0.022 μF 100V J	A2
C406	3679223120	Mylar 0.022 μF 100V J	B2
C407	3679224297	Mylar 0.22 μF 63V MINI K	B2
C408	3479210071	Electrolytic 10 μF 50V SA M	B2
C409	3479210071	Electrolytic 10 μF 50V SA M	C2
C410~C420		Not used	
C421	3479210121	Electrolytic 100 μF 10V SA M	C2
C422	3519150935	Ceramic 15 pF 50V AXIAL J	D2
C423	3519101935	Ceramic 100 pF 50V AXIAL J	D2
C424	3519473935	Ceramic 0.047 μF 50V AXIAL J	D2
C425	3519101935	Ceramic 100 pF 50V AXIAL J	D2
C426	3519473935	Ceramic 0.047 μF 50V J	D1
C427		Not used	
C428	3519223520	Ceramic 0.022 μF 25V AXIAL J	C2
C429	3679224297	Mylar 0.22 μF 63V MINI K	D2
C430	3679473120	Mylar 0.047 μF 100V J	C2
C431~C500		Not used	
C501	3409247139	Electrolytic 470 μF 16V CV M	C3
C502	3409247139	Electrolytic 470 μF 16V CV M	B3
C503~C506		Not used	
C507	3419547296	Electrolytic 4700 μF 40V HC M	C3/4
C508	3419547296	Electrolytic 4700 μF 40V HC M	B3/4
C509	3419547296	Electrolytic 4700 μF 40V HC M	C1/2
C510	3419547296	Electrolytic 4700 μF 40V HC M	B1/2
C511	3479222031	Electrolytic 22 μF 16V SA M	C2/3
C512	3409222131	Electrolytic 220 μF 16V SA M	D2
C513	3409222131	Electrolytic 220 μF 16V SA M	D2
C514	3409210171	Electrolytic 100 μF 50V SA M	B2
• Resistors (All Resistors are Carbon Film 1/5W J Type unless otherwise noted.)			
R101	3069152970	1.5k ohm	A3
R102	3069252970	2.4k ohm	A3
R103	3069152970	1.5k ohm	A3
R104	3069102970	1k ohm	A3
R105	3069563970	56k ohm	B3
R106	3069102970	1k ohm	A/B3
R107~R119		Not used	
R120	3069123970	12k ohm	B3
R121	3069182970	1.8k ohm	B3
R122	3069563970	56k ohm	A3

Ref. No	Part No.	Description		Position
R123,R124	3069100970	10 ohm		A3
R125	3069331970	330 ohm		A4
R126	3069182970	1.8k ohm		A/B4
R127	3069331970	330 ohm		A4
R128	3069331970	330 ohm		A3
R129~R131		Not used		
R132,R133	3229100472	10 ohm	Metal Oxide 1W	A4
R134,R135	3059108789	0.1 ohm	W.W Cement 5W K Type	A4
R136	3069561970	560 ohm		A4
R137		Not used		
R138	3229100472	10 ohm	Metal Oxide 1W	A4
R139	3229100472	10 ohm	Metal Oxide 1W	B4
R140	3059108789	0.1 ohm	W.W Cement 5W K Type	A4
R141	3059108789	0.1 ohm	W.W Cement 5W K Type	B4
R142	3069561970	560 ohm		A4
R143~R148		Not used		
R149	3069109970	1 ohm		B3
R150	3229100472	10 ohm	Metal Oxide 1W	B4
R151	3229100472	10 ohm	Metal Oxide 1W	B3/4
R152	3069121970	120 ohm		A3
R153	3069183970	18k ohm		A3
R154	3069183970	18k ohm		D3
R155	3069123970	12k ohm		D3
R156~R159		Not used		
R160	3069104970	100k ohm		D3
R161	3069223970	22k ohm		D3
R162~R200		Not used		
R201	3069152970	1.5k ohm		A3
R202	3069252970	2.4k ohm		A3
R203	3069152970	1.5k ohm		B3
R204~R206	3069103970	10k ohm		B3
R207	3069102970	1k ohm		D3
R208	3069563970	56k ohm		D3
R209	3069102970	1k ohm		C3
R210~R219		Not used		
R220	3069123970	12k ohm		D3
R221	3069182970	1.8k ohm		D3
R222	3069563970	56k ohm		D3
R223,R224	3069100970	10 ohm		D3
R225	3069331970	330 ohm		D4
R226	3069182970	1.8k ohm		D4
R227	3069331970	330 ohm		D4
R228	3069331970	330 ohm		D3
R229~R231		Not used		
R232,R233	3229100472	10 ohm	Metal Oxide 1W	D4
R234	3059108789	0.1 ohm	W.W Cement 5W K Type	C4
R235	3059108789	0.1 ohm	W.W Cement 5W K Type	D4
R236	3069561970	560 ohm		C4
R237		Not used		
R238,R239	3229100472	10 ohm	Metal Oxide 1W	D4
R240	3059108789	0.1 ohm	W.W Cement 5W K Type	C/D4
R241	3059108789	0.1 ohm	W.W Cement 5W K Type	D4
R242	3069561970	560 ohm		D4
R243~R248		Not used		
R249	3069109970	1 ohm		C3
R250	3229100472	10 ohm	Metal Oxide 1W	C4
R251	3229100472	10 ohm	Metal Oxide 1W	C3
R252	3069121970	120 ohm		D3
R253,R254	3069183970	18k ohm		D3
R255	3069123970	12k ohm		D3
R256~R259		Not used		
R260	3069104970	100k ohm		D3
R261	3069223970	22k ohm		D3

Ref. No	Part No.	Description		Position
R262~R300		Not used		
R301	3069252970	2.4k ohm		A2
R302	3069153970	15k ohm		A2
R303	3069104970	100k ohm		B2
R304	3069224970	220k ohm		A2
R305	3069123970	12k ohm		A2
R306	3069562970	5.6k ohm		B2
R307	3069153970	15k ohm		B2
R308	3069472970	4.7k ohm		B2
R309	3069102970	1k ohm		B2
R310	3069563970	56k ohm		B2
R311	3069102970	1k ohm		B2
R312~R319		Not used		
R320	3069123970	12k ohm		A2
R321	3069182970	1.8k ohm		A2
R322	3069563970	56k ohm		A2
R323,R324	3069100970	10 ohm		A2
R325	3069331970	330 ohm		A1
R326	3069182970	1.8k ohm		A1
R327	3069331970	330 ohm		A1
R328	3069331970	330 ohm		A2
R329~R331		Not used		
R332,R333	3229100472	10 ohm	Metal Oxide 1W	A1
R334	3059108789	0.1 ohm	W.W Cement 5W K Type	A1
R335	3059108789	0.1 ohm	W.W Cement 5W K Type	B1
R336	3069561970	560 ohm		A1
R337		Not used		
R338,R339	3229100472	10 ohm	Metal Oxide 1W	A1
R340	3059108789	0.1 ohm	W.W Cement 5W K Type	A1
R341	3059108789	0.1 ohm	W.W Cement 5W K Type	B1
R342	3069561970	560 ohm		A1
R343~R348		Not used		
R349	3069109970	1 ohm		B2
R350	3229100472	10 ohm	Metal Oxide 1W	B1
R351	3229100472	10 ohm	Metal Oxide 1W	B2
R352	3069121970	120 ohm		A2
R353	3069183970	18k ohm		A2
R354	3069183970	18k ohm		D2
R355	3069123970	12k ohm		D2
R356~R359		Not used		
R360	3069104970	100k ohm		D2
R361	3069223970	22k ohm		C/D2
R362~R400		Not used		
R401	3069252970	2.4k ohm		A2
R402	3069153970	15k ohm		A2
R403	3069104970	100k ohm		B2
R404	3069224970	220k ohm		A2
R405	3069123970	12k ohm		A2
R406	3069562970	5.6k ohm		B2
R407	3069153970	15k ohm		B2
R408	3069472970	4.7k ohm		B2
R409	3069622970	6.2k ohm		B2
R410,R411	3069103970	10k ohm		B2
R412	3069152970	1.5k ohm		B2
R413	3069821970	820 ohm		C2
R414		Not used		
R415	3069563970	56k ohm		C2
R416	3069102970	1k ohm		C2
R417~R419		Not used		
R420	3069123970	12k ohm		C2
R421	3069182970	1.8k ohm		C2
R422	3069563970	56k ohm		D2

Ref. No	Part No.	Description	Position
R423,R424	3069100970	10 ohm	D2
R425	3069331970	330 ohm	D2
R426	3069182970	1.8k ohm	D1
R427,R428	3069331970	330 ohm	D1
R429~R431		Not used	
R432	3229100472	10 ohm Metal Oxide 1W	C1
R433	3229100472	10 ohm Metal Oxide 1W	D1
R434	3059108789	0.1 ohm W.W Cement 5W K Type	C1
R435	3059108789	0.1 ohm W.W Cement 5W K Type	D1
R436	3069561970	560 ohm	C1
R437		Not used	
R438,R439	3229100472	10 ohm Metal Oxide 1W	D1
R440,R441	3059108789	0.1 ohm W.W Cement 5W K Type	D1
R442	3069561970	560 ohm	D1
R443~R448		Not used	
R449	3069109970	1 ohm	C2
R450	3229100472	10 ohm Metal Oxide 1W	C1
R451	3229100472	10 ohm Metal Oxide 1W	C2
R452	3069121970	120 ohm	D1
R453,R454	3069183970	18k ohm	D2
R455	3069123970	12k ohm	D2
R456~R459		Not used	
R460	3069104970	100k ohm	D2
R461	3069223970	22k ohm	C/D2
R462~R500		Not used	
R501	3229152472	1.5k ohm Metal Oxide 1W	B3
R502	3229152472	1.5k ohm Metal Oxide 1W	C3
R503	3229561472	560 ohm Metal Oxide 1W	C3
R504	3229152472	1.5k ohm Metal Oxide 1W	B3
R505	3229561472	560 ohm Metal Oxide 1W	B3
R506,R507	3069103970	10k ohm	B3
R508~R511	3069104970	100k ohm	A3
R512~R524		Not used	
R525	3069103970	10k ohm	D2
R526,R527	3229562472	5.6k ohm Metal Oxide 1W	D3
R528	3069223970	22k ohm	B/C3
R529	3229562472	5.6k ohm Metal Oxide 1W	B/C3
R530	3069103970	10k ohm	C3
R531	3069473970	47k ohm	C3
R532	3069103970	10k ohm	C2
R533	3069103970	10k ohm	C3
R534,R535	3069473970	47k ohm	C3
R536	3069473970	47k ohm	C2
R537	3069103970	10k ohm	C2
R538	3069103970	10k ohm	B2
R539	3069473970	47k ohm	C3
R540,R541		Not used	
R542	3069332970	3.3k ohm	D3
R543	3069102970	1k ohm	C2
• Others			
CNT1	4428525800	Connector Plug 4P, BW-406, AC S-4	B/C4
CNT2	4428525800	Connector Plug 4P, BW-406, AC S-4	B/C1
CNT3-1	4428525790	Connector Plug 3P, BW-306, AC S-3	C3
CNT3-2	4428525790	Connector Plug 3P, BW-306, AC S-3	B/C2
CNT4	4428508210	Connector Plug 2P, 5267-02A	D2
CNT5	4428505710	Connector Plug 3P, 5267-03A	C3
CNT6	436106148841	CNT Ass'y 6P, 5264,5395-0614, to Front PCB	A3
CNT7	436106148841	CNT Ass'y 6P, 5264,5395-0614, to Front PCB	A2
	4358906211	CNT Ass'y 6P, BL206-BL103 #16	
	4462000160	Speaker Terminal Ass'y 6P	

Ref. No	Part No.	Description	Position
	6505121710	Brass Bar 3A	
	4002619000	Amp. P.C. Board	

Ass'y P.C.B Front

• Diodes			
D601	2308220306	LED, SLR 54GC3, Green	
D602	2308220109	LED, SLR 54URC3, Red	
• Semi-Fixed Variable Resistors			
VR601	3248050346	VR, 20K(B), RK14K1230301	
VR602	3248050346	VR, 20K(B), RK14K1230301	
• Switchs			
SW601	4168008010	Switch Slide, SSSA042GA011	
SW602	4168008010	Switch Slide, SSSA042GA011	
• Capacitors			
C601	3519101935	Ceramic 100 pF 50V AXIAL J	
C602	3479210071	Electrolytic 10 μF 50V SA M	
C603	3519101935	Ceramic 100 pF 50V AXIAL J	
C604	3479210071	Electrolytic 10 μF 50V SA M	
C605	3519101935	Ceramic 100 pF 50V AXIAL J	
C606	3479210071	Electrolytic 10 μF 50V SA M	
C607	3519101935	Ceramic 100 pF 50V AXIAL J	
C608	3479210071	Electrolytic 10 μF 50V SA M	
• Resistors (All Resistors are Carbon Film 1/5W J Type unless otherwise noted.)			
R601~R608	3069222970	2.2k ohm	
• Others			
CNT601	4428505810	Connector Plug 6P, 5267-06A	
CNT602	4428505810	Connector Plug 6P, 5267-06A	
RCA601	4438105810	RCA JACK 2P	
RCA602	4438105810	RCA JACK 2P	
	8525008010	Holder LED	
	4002618800	Front P. C. Board	

Ass'y P.C.B Power Supply

• Integrated Circuits			
IC701	2138013118	μPC 494C, PWM Switching	A2/3
IC702	2168802001	LM 339, Quad Differential Comparator	C/D2
• Transistors			
Q701	2028802001	FET IRFZ 34	C1
Q702	2028802001	FET IRFZ 34	A1
Q703	2028802001	FET IRFZ 34	B1
Q704		Not used	
Q705	2028802001	FET IRFZ 34	A4
Q706	2028802001	FET IRFZ 34	C4
Q707		Not used	
Q708	2028802001	FET IRFZ 34	B4
Q709	2208706001	NPN KN 2222(A)	B2
Q710	2208706100	PNP KN 2907(A)	B2
Q711	2208706100	PNP KN 2907(A)	A2

Ref. No	Part No.	Description	Position
Q712	2208706001	NPN KN 2222(A)	A2
Q713	2208706001	NPN KN 2222(A)	A3
Q714	2208706100	PNP KN 2907(A)	A3
Q715	2208706100	PNP KN 2907(A)	B3
Q716	2208706001	NPN KN 2222(A)	B3
Q717	2208206105	PNP KTA 1266(Y)	A2
Q718	2208606104	NPN KTC 3198(Y)	A2
Q719,Q720	2208606104	NPN KTC 3198(Y)	A3
Q721	2208606104	NPN KTC 3198(Y)	A/B3
Q722	2208606104	NPN KTC 3198(Y)	C3
Q723	2008617100	NPN 2SD 600F	C/D3
Q724	2208222101	PNP DTA 114Y(S)	C3
Q725	2008617100	NPN 2SD 600F	C/D3
Q726		Not used	
Q727	2028802001	FET IRFZ 34	B1
Q728	2028802001	FET IRFZ 34	B4

• Diodes

D701	2058100136	Retifier	1N5402	200V/5A	Silicon	A1/2
D702	2058100136	Retifier	1N5402	200V/5A	Silicon	A2
D703,D704	2058100136	Retifier	1N5402	200V/5A	Silicon	A3
D705	2258522112	Zener	MTZ-6.2B	6.2V/500mW	Silicon	A3
D706	2058116103	Retifier	CTU22-S	250V/8A	Silicon	D1
D707	2058116104	Retifier	CTU22-R	250V/8A	Silicon	D1
D708	2058116103	Retifier	CTU22-S	250V/8A	Silicon	D4
D709	2058116104	Retifier	CTU22-R	250V/8A	Silicon	D4
D710,D711	2058522101	Switching	1N4148(M)	60V/500mW	Silicon	A2
D712	2258522124	Zener	MTZ-20B	20V/500mW	Silicon	A3
D713	2258522119	Zener	MTZ-12B	12V/500mW	Silicon	D3
D714,D715	2058522101	Switching	1N4148(M)	60V/500mW	Silicon	D3
D716	2058522101	Switching	1N4148(M)	60V/500mW	Silicon	C2
D717	2058522101	Switching	1N4148(M)	60V/500mW	Silicon	C4
D718		Not used				
D719	2058522101	Switching	1N4148(M)	60V/500mW	Silicon	D3
D720	2258522116	Zener	MTZ-9.1B	9.1V/500mW	Silicon	C3

• Coils

L701	2898000180	Choke Coil-Bar	A2
L702	2898000180	Choke Coil-Bar	A3
L703	2648601930	Choke Coil-Ring	D1
L704	2648601930	Choke Coil-Ring	D2
L705	2648601930	Choke Coil-Ring	D3
L706	2648601930	Choke Coil-Ring	D3/4

• Negative Thermal Resistors

NR701	2438203003	50K(B), Thermistor, KT5D54F-C0055	C1
NR702	2438203003	50K(B), Thermistor, KT5D54F-C0055	C4

• Capacitors

C701	3479347031	Electrolytic	47 μF	25V	SG	M	A2
C702	3479347031	Electrolytic	47 μF	25V	SG	M	A3
C703	3679104297	Mylar	0.1 μF	63V	MINI	K	A2
C704	3419547202	Electrolytic	4700 μF	16V	HE	M	
C705	3679104297	Mylar	0.1 μF	63V	MINI	K	A3
C706	3419547202	Electrolytic	4700 μF	16V	HE	M	
C707	3679223120	Mylar	0.022 μF	100V		J	C1
C708	3679223120	Mylar	0.022 μF	100V		J	A2
C709	3679223120	Mylar	0.022 μF	100V		J	A3
C710	3679223120	Mylar	0.022 μF	100V		J	C4
C711,C712	3679104297	Mylar	0.1 μF	63V	MINI	K	D2

Ref. No	Part No.	Description	Position
C713,C714	3679104297	Mylar 0.1 μF 63V MINI K	D3
C715,C716		Not used	
C717	3409310141	Electrolytic 100 μF 25V SG M	A3
C718,C719	3409322121	Electrolytic 220 μF 10V SG M	A2
C720	3679122120	Mylar 0.0012 μF 100V J	A3
C721	3679104297	Mylar 0.1 μF 63V MINI K	A2
C722	3679103120	Mylar 0.01 μF 100V J	A2
C723	3409310141	Electrolytic 100 μF 25V SG M	A2
C724	3479210071	Electrolytic 10 μF 50V SA M	M
C725	3479347041	Electrolytic 47 μF 25V SG M	A3
C726	3679223120	Mylar 0.022 μF 100V J	A3

• Resistors (All Resistors are Carbon Film 1/4W J Type unless otherwise noted.)

R701	3029100470	10 ohm Metal Film 1W	C1
R702	3029100470	10 ohm Metal Film 1W	A/B2
R703	3029100470	10 ohm Metal Film 1W	A/B3
R704	3029100470	10 ohm Metal Film 1W	C4
R705	3069221970	220 ohm	B1
R706	3069102970	1k ohm	B1
R707	3069221970	220 ohm	B1
R708	3069102970	1k ohm	B1
R709,R710		Not used	
R711	3069221970	220 ohm	A1
R712	3069102970	1k ohm	A1
R713,R714		Not used	
R715	3069221970	220 ohm	A4
R716	3069102970	1k ohm	A4
R717	3069221970	220 ohm	B4
R718	3069102970	1k ohm	B4
R719	3069221970	220 ohm	
R720	3069102970	1k ohm	C4
R721	3069102970	1k ohm	B2/3
R722	3069102970	1k ohm	A2
R723	3069102970	1k ohm	A3
R724	3069102970	1k ohm	B3
R725	3069183970	18k ohm	A3
R726	3069103970	10k ohm	A2
R727	3069104970	100k ohm	A2
R728	3069623970	62k ohm	A2
R729,R730	3069332970	3.3k ohm	A2
R731,R732	3069103970	10k ohm	A2
R733	3069222970	2.2k ohm	A3
R734	3069562970	5.6k ohm	A3
R735,R736	3069103970	10k ohm	A2
R737	3069471970	470 ohm	A2
R738	3069332970	3.3k ohm	A3
R739	3069222970	2.2k ohm	A3
R740,R741	3069103970	10k ohm	A3
R742	3069102970	1k ohm	A3
R743	3069103970	10k ohm	D2
R744	3069471970	470 ohm	C3
R745	3069394970	390k ohm	C2
R746	3069222970	2.2k ohm	D2
R747	3069272970	2.7k ohm	D2
R748	3069472970	4.7k ohm	D2
R749	3069563970	56k ohm	C2
R750	3069243970	24k ohm	C2
R751,R752	3069123970	12k ohm	C2
R753	3069562970	5.6k ohm	C2
R754	3069103970	10k ohm	D2
R755	3069822970	8.2k ohm	C2
R756	3069273970	27k ohm	C2
R757	3069682970	6.8k ohm	D2

Ref. No	Part No.	Description	Position
R758	3069102970	1k ohm	B2
R759	3069102970	1k ohm	B2/3
R760,R761		Not used	
R762,R763	3069330970	33 ohm	D3
R764~R767		Not used	
R768	3069221970	220 ohm	A4
R769	3069102970	1k ohm	B4
• Others			
FUSE701	5508724115	Auto Fuse 25A	
FUSE702	5508724115	Auto Fuse 25A	
FAN701	5558103210	DC Brushless Fan	
FAN702	5558103210	DC Brushless Fan	
T701	2888103640	Trans Ring, ø40	B1/2
T702	2888103640	Trans Ring, ø40	B3/4
CNT701	4428527590	Connector Plug 6P, BW-206S, L-TSL-ype	D2/3
CNT702	436102203441	CNT Ass'y 2P, 5264,5395-0220, to AMP. PCB	A2
CNT703	436103403441	CNT Ass'y 3P, 5264,5395-0340, to AMP. PCB	B2
	6503023810	Brass Bar S-M	
	6505120610	Brass Bar S-P	
	6505120910	Guide Senser	
	4002618810	Fuse P.C. Board	
	4002618900	Power Supply P.C. Board	
Accessory Kits			
	8099150201	Screw, HEX M SP/W 5×20Y	
	8159150203	Screw, #1WPTC 5×20B	
	8209550011	Nut Flange Toothed M5	

Note: RESISTOR/CAPACITOR TOLERANCE;

D: ±0.5%, J: ±5%, K: ±10%, M: ±20%, Z: +80%, −20%

For* Mylar is registered trademark of E.I Du Pont de Nemours and Company.

Electrical Parts List (XAT-400Q)

Ref. No	Part No.	Description	Position
Ass'y P.C.B Amp.			
• Integrated Circuit			
IC1	2168000114	MC4558DD, Dual OP-Amp.	B2
IC2	2168000114	MC4558DD, Dual OP-Amp.	C2
IC3	2168000114	MC4558DD, Dual OP-Amp.	C3
IC4	2138001101	GD4066BCP, Quad Analog Switching	C2
IC5	2168000114	MC4558DD, Dual OP-Amp.	C3
IC6	2168013116	μPC1298, 50 to 80W Power Amp. Driver	B1
IC7	2168013116	μPC1298, 50 to 80W Power Amp. Driver	B4
IC8	2168013116	μPC1298, 50 to 80W Power Amp. Driver	C1
IC9	2168013116	μPC1298, 50 to 80W Power Amp. Driver	C4
IC10	2108000104	PC 17T-1, Photocouplers 1CH	B1
IC11	2108000208	PC 17T-2, Photocouplers 2CH	C4
• Transistors			
Q101	2208606112	NPN 2SD 1302(S) Silicon KEC	B2
Q102	2028406132	NPN KTC 4370 Silicon KEC	B1
Q103	2028106112	PNP KTA 1659(Y) Silicon KEC	B1
Q104	2028406120	NPN KTC 2235(Y) Silicon KEC	A2
Q105,Q106		Not used	
Q107	2028407109	NPN KTD 718(O) Silicon KEC	A1
Q108	2028107106	PNP KTB 688(O) Silicon KEC	A2
Q109	2028407109	NPN KTD 718(O) Silicon KEC	A1
Q110	2028107106	PNP KTB 688(O) Silicon KEC	A2
Q111	2028407109	NPN KTD 718(O) Silicon KEC	A1
Q112	2028107106	PNP KTB 688(O) Silicon KEC	A2
Q113~Q115	2208606104	NPN KTC 3198(Y) Silicon KEC	B4
Q116~Q200		Not used	
Q201	2208606112	NPN KTD 1302(S) Silicon KEC	B3
Q202	2028406132	NPN KTC 4370 Silicon KEC	B4
Q203	2028106112	PNP 2SA 1659 Silicon KEC	B4
Q204	2028406120	NPN KTC 2235(Y) Silicon KEC	A4
Q205,Q206		Not used	
Q207	2028407109	NPN KTD 718(O) Silicon KEC	A3
Q208	2028107106	PNP KTB 688(O) Silicon KEC	A4
Q209	2028407109	NPN KTD 718(O) Silicon KEC	A3
Q210	2028107106	PNP KTB 688(O) Silicon KEC	A4
Q211	2028407109	NPN KTD 718(O) Silicon KEC	A3
Q212	2028107106	PNP KTB 688(O) Silicon KEC	A4
Q213~Q215	2208606104	NPN KTC 3198(Y) Silicon KEC	B4
Q216~Q300		Not used	
Q301	2208606112	NPN KTD 1302(S) Silicon KEC	C3
Q302	2028406132	NPN KTC 4370 Silicon KEC	C1
Q303	2028106112	PNP KTA 1659(Y) Silicon KEC	C1
Q304	2028406120	NPN KTC 2235(Y) Silicon KEC	D1
Q305,Q306		Not used	
Q307	2028407109	NPN KTD 718(O) Silicon KEC	D1
Q308	2028107106	PNP KTB 688(O) Silicon KEC	D2
Q309	2028407109	NPN KTD 718(O) Silicon KEC	D1
Q310	2028107106	PNP KTB 688(O) Silicon KEC	D2
Q311	2028407109	NPN KTD 718(O) Silicon KEC	D1
Q312	2028107106	PNP KTB 688(O) Silicon KEC	D2
Q313	2208606104	NPN KTC 3198(Y) Silicon KEC	C4
Q314,Q315	2208606104	NPN KTC 3198(Y) Silicon KEC	C3
Q316~Q400		Not used	
Q401	2208606112	NPN KTD 1302(S) Silicon KEC	C3
Q402	2028406132	NPN KTC 4370 Silicon KEC	C4
Q403	2028106112	PNP KTA 1659(Y) Silicon KEC	C4
Q404	2028406120	NPN KTC 2235(Y) Silicon KEC	D3
Q405,Q406		Not used	
Q407	2028407109	NPN KTD 718(O) Silicon KEC	D3
Q408	2028107106	PNP KTB 688(O) Silicon KEC	D4
Q409	2028407109	NPN KTD 718(O) Silicon KEC	D3
Q410	2028107106	PNP KTB 688(O) Silicon KEC	D4
Q411	2028407109	NPN KTD 718(O) Silicon KEC	D3
Q412	2028107106	PNP KTB 688(O) Silicon KEC	D4
Q413~Q415	2208606104	NPN KTC 3198(Y) Silicon KEC	C4
Q416~Q500		Not used	
Q501	2028406118	NPN KTD 2058(Y) Silicon KEC	B3
Q502	2028406124	PNP KTB 1366(Y) Silicon KEC	B3
Q503		Not used	
Q504	2208206105	PNP KTA 1266(Y) Silicon KEC	B3/4
Q505		Not used	
Q506	2208222101	PNP DTA 114Y(S) Silicon ROHM(K)	C4
Q507	2208606104	NPN KTC 3198(Y) Silicon KEC	B/C4
Q508	2208206105	PNP KTA 1266(Y) Silicon KEC	B4
Q509~Q511	2208206105	PNP KTA 1266(Y) Silicon KEC	B1
• Diodes			
D101	2258522107	Zener MTZ-3.9B 3.9V/500mW Silicon	A1
D102~D105		Not used	
D106,D107	2058322101	Switching 1N4148(M) 60V/500mW Silicon	B4
D108	2258522111	Zener MTZ-5.6B 5.6V/500mW Silicon	B4
D109~D200		Not used	
D201	2258522107	Zener MTZ-3.9B 3.9V/500mW Silicon	B4
D202~D205		Not used	
D206,D207	2058322101	Switching 1N4148(M) 60V/500mW Silicon	B4
D208	2258522111	Zener MTZ-5.6B 5.6V/500mW Silicon	B4
D209~D300		Not used	
D301	2258522107	Zener MTZ-3.9B 3.9V/500mW Silicon	C1
D302~D305		Not used	
D306,D307	2058322101	Switching 1N4148(M) 60V/500mW Silicon	C4
D308	2258522111	Zener MTZ-5.6B 5.6V/500mW Silicon	C4
D309~D400		Not used	
D401	2258522107	Zener MTZ-3.9B 3.9V/500mW Silicon	C4
D402~D405		Not used	
D406,D407	2058322101	Switching 1N4148(M) 60V/500mW Silicon	C4
D408	2258522111	Zener MTZ-5.6B 5.6V/500mW Silicon	C4
D409~D500		Not used	
D501,D502	2258522121	Zener MTZ-15B 15V/500mW Silicon	B3
D503,D504	2258522114	Zener MTZ-7.5B 7.5V/500mW Silicon	B1
D505		Not used	
D506	2058322101	Switching 1N4148(M) 60V/500mW Silicon	B4
D507	2058322101	Switching 1N4148(M) 60V/500mW Silicon	B3
D508	2058322101	Switching 1N4148(M) 60V/500mW Silicon	C1
D509	2258522116	Zener MTZ-9.1B 9.1V/500mW Silicon	C1
D510	2058322101	Switching 1N4148(M) 60V/500mW Silicon	C1
D511	2258522116	Zener MTZ-9.1B 9.1V/500mW Silicon	C1
D512	2258522108	Zener MTZ-4.3B 4.3V/500mW Silicon	C1
D513,D514	2058322101	Switching 1N4148(M) 60V/500mW Silicon	B1
D515		Not used	
D516	2058322101	Switching 1N4148(M) 60V/500mW Silicon	B1
• Semi-Fixed Variable Resistors			
VR101	3248010243	RES SEMI 1K(B), EVN-DJAA03B13	B1

Ref. No	Part No.	Description	Position
VR201	3248010243	RES SEMI 1K(B), EVN-DJAA03B13	B4
VR301	3248010243	RES SEMI 1K(B), EVN-DJAA03B13	C/D1
VR401	3248010243	RES SEMI 1K(B), EVN-DJAA03B13	C4
• Negative Thermal Resistors			
NR101	2438203002	20K(B), Thermistor, KT5D24F-C0057	A1
NR201	2438203002	20K(B), Thermistor, KT5D24F-C0057	A3
NR301	2438203002	20K(B), Thermistor, KT5D24F-C0057	D2
NR401	2438203002	20K(B), Thermistor, KT5D24F-C0057	D4
• Coils			
L101	2648602260	Inductor Coil 1.22 μH	A2
L201	2648601550	Inductor Coil 1.22 μH	A3
L301	2648601550	Inductor Coil 1.22 μH	D2
L401	2648601550	Inductor Coil 1.22 μH	D3
• Capacitors			
C101	3479310121	Electrolytic 100 μF 10V SG M	B2
C102	3519101935	Ceramic 100 pF 50V AXIAL J	B2
C103	3519681935	Ceramic 680 pF 50V AXIAL J	B2
C104,C105	3479210071	Electrolytic 10 μF 50V SA M	B2
C106~C120		Not used	
C121	3479310121	Electrolytic 100 μF 10V SG M	B2
C122	3519150935	Ceramic 15 pF 50V AXIAL J	B1
C123	3519101935	Ceramic 100 pF 50V AXIAL J	A1
C124	3519473935	Ceramic 0.047 μF 50V AXIAL J	B1
C125	3519101935	Ceramic 100 pF 50V AXIAL J	A1
C126	3519473935	Ceramic 0.047 μF 50V AXIAL J	A1
C127		Not used	
C128	3519223520	Ceramic 0.022 μF 25V AXIAL Z	B2
C129	3679224297	*Mylar 0.22 μF 63V MINI K	B4
C130	3679473120	Mylar 0.047 μF 100V J	B2
C129~C200		Not used	
C201	3479310121	Electrolytic 100 μF 10V SG M	B2
C202	3519101935	Ceramic 100 pF 50V AXIAL J	B2
C203	3519681935	Ceramic 680 pF 50V AXIAL J	B/C2
C204,C205	3479210071	Electrolytic 10 μF 50V SA M	B3
C206	3519560935	Ceramic 56 pF 50V AXIAL J	C3
C207~C220		Not used	
C221	3479310121	Electrolytic 100 μF 10V SG M	B4
C222	3519150935	Ceramic 15 pF 50V AXIAL J	B4
C223	3519101935	Ceramic 100 pF 50V AXIAL J	A4
C224	3519473935	Ceramic 0.047 μF 50V AXIAL J	B4
C225	3519101935	Ceramic 100 pF 50V AXIAL J	A4
C226	3519473935	Ceramic 0.047 μF 50V AXIAL J	A4
C227		Not used	
C228	3519223520	Ceramic 0.022 μF 25V AXIAL Z	B3
C229	3679224297	Mylar 0.22 μF 63V MINI K	B4
C230	3679473120	Mylar 0.047 μF 100V J	B3
C229~C300		Not used	
C301	3479210121	Electrolytic 100 μF 10V SA M	C2
C302	3519101935	Ceramic 100 pF 50V AXIAL J	C1
C303	3519181935	Ceramic 180 pF 50V AXIAL J	C1
C304	3479210071	Electrolytic 10 μF 50V SA M	C2
C305,C306	3679223120	Mylar 0.022 μF 100V J	C2
C307	3679224297	Mylar 0.22 μF 63V MINI K	C2
C308	3479210071	Electrolytic 10 μF 50V SA M	C2
C309	3479210071	Electrolytic 10 μF 50V SA M	C3
C310~C320		Not used	

Ref. No	Part No.	Description	Position
C321	3479210121	Electrolytic 100 μF 10V SG M	C1
C322	3519150935	Ceramic 15 pF 50V AXIAL J	C1
C323	3519101935	Ceramic 100 pF 50V AXIAL J	C1
C324	3519473935	Ceramic 0.047 μF 50V AXIAL J	C1
C325	3519101935	Ceramic 100 pF 50V AXIAL J	C1
C326	3519473935	Ceramic 0.047 μF 50V AXIAL J	C1
C327		Not used	
C328	3519223520	Ceramic 0.022 μF 25V AXIAL Z	C2
C329	3679224297	Mylar 0.22 μF 63V MINI K	C4
C330	3679473120	Mylar 0.047 μF 100V J	C2
C331~C400		Not used	
C401	3479310121	Electrolytic 100 μF 10V SG M	B2
C402	3519101935	Ceramic 100 pF 50V AXIAL J	B1
C403	3519181935	Ceramic 180 pF 50V AXIAL J	B1
C404	3479210071	Electrolytic 10 μF 50V SA M	C2
C405,C406	3679223120	Mylar 0.022 μF 100V J	C2
C407	3679224297	Mylar 0.22 μF 63V MINI K	C2
C408,C409	3479210071	Electrolytic 10 μF 50V SA M	C3
C410~C420		Not used	
C421	3479310121	Electrolytic 100 μF 10V SG M	C4
C422	3519150935	Ceramic 15 pF 50V AXIAL J	C4
C423	3519101935	Ceramic 100 pF 50V AXIAL J	C4
C424	3519473935	Ceramic 0.047 μF 50V AXIAL J	C4
C425	3519101935	Ceramic 100 pF 50V AXIAL J	C4
C426	3519473935	Ceramic 0.047 μF 50V AXIAL J	C4
C427		Not used	
C428	3519223520	Ceramic 0.022 μF 25V AXIAL Z	C3
C429	3679224297	Mylar 0.22 μF 63V MINI J	C4
C430	3679473120	Mylar 0.047 μF 100V J	C3
C431~C500		Not used	
C501,C502	3409247139	Electrolytic 470 μF 16V CV M	B3
C503~C506		Not used	
C507	3419547226	Electrolytic 4700 μF 50V HC M	B3
C508	3419547226	Electrolytic 4700 μF 50V HC M	B2
C509	3419547226	Electrolytic 4700 μF 50V HC M	C3
C510	3419547226	Electrolytic 4700 μF 50V HC M	C2
C511	3479210071	Electrolytic 10 μF 50V SA M	C1
C512	3409222131	Electrolytic 220 μF 16V SA M	B4
C513	3409222131	Electrolytic 220 μF 16V SA M	C4
C514	3479310171	Electrolytic 100 μF 50V SG M	B1
• Resistors (All Resistors are Carbon Film 1/5W J Type unless otherwise noted.)			
R101	3069242970	2.4k ohm	B2
R102	3069472970	4.7k ohm	B2
R103,R104	3069272970	2.7k ohm	B2
R105	3069563970	56k ohm	B2
R106	3069102970	1k ohm	B2
R107~R118		Not used	
R119	3069683970	68k ohm	B2
R120	3069123970	12k ohm	B2
R121	3069182970	1.8k ohm	B2
R122	3069563970	56k ohm	B1
R123,R124	3069100970	10 ohm	B1
R125	3069331970	330 ohm	A1
R126	3069182970	1.8k ohm	A1
R127	3069331970	330 ohm	A1
R128	3069331970	330 ohm	B1
R129~R131		Not used	
R132	3029100470	10 ohm Metal Film 1W	A1
R133	3029100470	10 ohm Metal Film 1W	A2
R134	3059108789	0.1 ohm W.W Cement 5W K Type	A1

Ref. No	Part No.	Description		Position
R135	3059108789	0.1 ohm	W.W Cement 5W K Type	A2
R136	3069561970	560 ohm		A1
R137		Not used		
R138	3029100470	10 ohm	Metal Film 1W	A1
R139	3029100470	10 ohm	Metal Film 1W	A2
R140	3059108789	0.1 ohm	W.W Cement 5W K Type	A1
R141	3059108789	0.1 ohm	W.W Cement 5W K Type	A2
R142	3069561970	560 ohm		A1
R143		Not used		
R144	3029100470	10 ohm	Metal Film 1W	A1
R145	3029100470	10 ohm	Metal Film 1W	A2
R146	3059108789	0.1 ohm	W.W Cement 5W K Type	A1
R147	3059108789	0.1 ohm	W.W Cement 5W K Type	A2
R148	3069561970	560 ohm		A1
R149	3069109970	1 ohm		B2
R150	3029100470	10 ohm	Metal Film 1W	A2
R151	3029100470	10 ohm	Metal Film 1W	B2
R152	3069121970	120 ohm		B4
R153,R154	3069183970	18k ohm		B4
R155	3069123970	12k ohm		B4
R156~R159		Not used		
R160	3069104970	100k ohm		B4
R161	3069223970	22k ohm		B4
R162~R200		Not used		
R201	3069242970	2.4k ohm		B2
R202	3069472970	4.7k ohm		B2
R203	3069272970	2.7k ohm		B3
R204,R205	3069103970	10k ohm		C3
R206	3069103970	10k ohm		B3
R207	3069272970	2.7k ohm		B4
R208	3069563970	56k ohm		B3
R209	3069102970	1k ohm		B3
R210~R218		Not used		
R219	3069683970	68k ohm		B2
R220	3069123970	12k ohm		B3
R221	3069182970	1.8k ohm		B4
R222	3069563970	56k ohm		B4
R223,R224	3069100970	10 ohm		B4
R225	3069331970	330 ohm		A4
R226	3069182970	1.8k ohm		A3/4
R227,R228	3069331970	330 ohm		A4
R229~R231		Not used		
R232	3029100470	10 ohm	Metal Film 1W	A3
R233	3029100470	10 ohm	Metal Film 1W	A4
R234	3059108789	0.1 ohm	W.W Cement 5W K Type	A3
R235	3059108789	0.1 ohm	W.W Cement 5W K Type	A4
R236	3069561970	560 ohm		A3
R237		Not used		
R238	3029100470	10 ohm	Metal Film 1W	A3
R239	3029100470	10 ohm	Metal Film 1W	A4
R240	3059108789	0.1 ohm	W.W Cement 5W K Type	A3
R241	3059108789	0.1 ohm	W.W Cement 5W K Type	A4
R242	3069561970	560 ohm		A3
R243		Not used		
R244	3029100470	10 ohm	Metal Film 1W	A3
R245	3029100470	10 ohm	Metal Film 1W	A4
R246	3059108789	0.1 ohm	W.W Cement 5W K Type	A3
R247	3059108789	0.1 ohm	W.W Cement 5W K Type	A4
R248	3069561970	560 ohm		A3
R249	3069109970	1 ohm		B3
R250	3029100470	10 ohm	Metal Film 1W	A3
R251	3029100470	10 ohm	Metal Film 1W	B3
R252	3069121970	120 ohm		B4

Ref. No	Part No.	Description		Position
R253,R254	3069183970	18k ohm		B4
R255	3069123970	12k ohm		B4
R256~R259		Not used		
R260	3069104970	100k ohm		B4
R261	3069223970	22k ohm		B4
R262~R300		Not used		
R301	3069332970	3.3k ohm		C1
R302	3069223970	22k ohm		C1
R303	3069224970	220k ohm		C2
R304	3069224970	220k ohm		B3
R305	3069123970	12k ohm		B3
R306	3069562970	5.6k ohm		C3
R307	3069153970	15k ohm		C3
R308	3069472970	4.7k ohm		C2
R309	3069102970	1k ohm		C2
R310	3069563970	56k ohm		C2
R311	3069102970	1k ohm		C3
R312~R318		Not used		
R319	3069333970	33k ohm		C1
R320	3069123970	12k ohm		C2
R321	3069182970	1.8k ohm		C2
R322	3069563970	56k ohm		C1
R323,R324	3069100970	10 ohm		C1
R325	3069331970	330 ohm		C1
R326	3069182970	1.8k ohm		D2
R327,R328	3069331970	330 ohm		D1
R329~R331		Not used		
R332,R333	3029100470	10 ohm	Metal Film 1W	D1
R334	3059108789	0.1 ohm	W.W Cement 5W K Type	D1
R335	3059108789	0.1 ohm	W.W Cement 5W K Type	D2
R336	3069561970	560 ohm		D1
R337		Not used		
R338	3029100470	10 ohm	Metal Film 1W	D1
R339	3029100470	10 ohm	Metal Film 1W	D2
R340	3059108789	0.1 ohm	W.W Cement 5W K Type	D1
R341	3059108789	0.1 ohm	W.W Cement 5W K Type	D2
R342	3069561970	560 ohm		D1
R343		Not used		
R344	3029100470	10 ohm	Metal Film 1W	D1
R345	3029100470	10 ohm	Metal Film 1W	D2
R346	3059108789	0.1 ohm	W.W Cement 5W K Type	D1
R347	3059108789	0.1 ohm	W.W Cement 5W K Type	D2
R348	3069561970	560 ohm		D1
R349	3069109970	1 ohm		C2
R350	3029100470	10 ohm	Metal Film 1W	D2
R351	3029100470	10 ohm	Metal Film 1W	C/D2
R352	3069121970	120 ohm		C4
R353,R354	3069183970	18k ohm		C4
R355	3069123970	12k ohm		C4
R356~R359		Not used		
R360	3069104970	100k ohm		C4
R361	3069223970	22k ohm		C3
R362~R400		Not used		
R401	3069332970	3.3k ohm		B1
R402	3069223970	22k ohm		B1
R403	3069104970	100k ohm		C2
R404	3069224970	220k ohm		B3
R405	3069123970	12k ohm		C3
R406	3069562970	5.6k ohm		B2
R407	3069153970	15k ohm		C3
R408	3069472970	4.7k ohm		C2
R409	3069622970	6.2k ohm		C3

Ref. No	Part No.	Description		Position
R410,R411	3069103970	10k ohm		C3
R412	3069152970	1.5k ohm		C3
R413	3069222970	2.2k ohm		C3
R414		Not used		
R415	3069563970	56k ohm		C3
R416	3069102970	1k ohm		C3
R417~R418		Not used		
R419	3069333970	33k ohm		B1
R420	3069123970	12k ohm		C3
R421	3069182970	1.8k ohm		C3
R422	3069563970	56k ohm		C4
R423,R424	3069100970	10 ohm		C4
R425	3069331970	330 ohm		C4
R426	3069182970	1.8k ohm		D3
R427,R428	3069331970	330 ohm		D4
R429~R431		Not used		
R432	3029100470	10 ohm	Metal Film 1W	D3
R433	3029100470	10 ohm	Metal Film 1W	D4
R434	3059108789	0.1 ohm	W.W Cement 5W K Type	D3
R435	3059108789	0.1 ohm	W.W Cement 5W K Type	D4
R436	3069561970	560 ohm		D3
R437		Not used		
R438	3029100470	10 ohm	Metal Film 1W	D3
R439	3029100470	10 ohm	Metal Film 1W	D4
R440	3059108789	0.1 ohm	W.W Cement 5W K Type	D3
R441	3059108789	0.1 ohm	W.W Cement 5W K Type	D4
R442	3069561970	560 ohm		D3
R443		Not used		
R444	3029100470	10 ohm	Metal Film 1W	D3
R445	3029100470	10 ohm	Metal Film 1W	D4
R446	3059108789	0.1 ohm	W.W Cement 5W K Type	D3
R447	3059108789	0.1 ohm	W.W Cement 5W K Type	D4
R448	3069561970	560 ohm		D3
R449	3069109970	1 ohm		C3
R450	3029100470	10 ohm	Metal Film 1W	D3
R451	3029100470	10 ohm	Metal Film 1W	C3
R452	3069121970	120 ohm		C4
R453,R454	3069183970	18k ohm		C4
R455	3069123970	12k ohm		C4
R456~R459		Not used		
R460	3069104970	100k ohm		C4
R461	3069223970	22k ohm		C3
R462~R500		Not used		
R501	3029152470	1.5k ohm	Metal Film 1W	B2
R502	3029152470	1.5k ohm	Metal Film 1W	B3
R503		Not used		
R504	3029152470	1.5k ohm	Metal Film 1W	B3
R505		Not used		
R506	3069103970	10k ohm		C1
R507	3069103970	10k ohm		B1
R508~R511	3069104970	100k ohm		C2
R512~R524		Not used		
R525	3069103970	10k ohm		B/C4
R526,R527	3029562470	5.6k ohm	Metal Film 1W	C4
R528	3069223970	22k ohm		
R529	3029562470	5.6k ohm	Metal Film 1W	B3
R530	3069103970	10k ohm		B4
R531	3069473970	47k ohm		B3
R532	3069103970	10k ohm		B3
R533	3069103970	10k ohm		C1
R534	3069473970	47k ohm		B1
R535	3069104970	100k ohm		B1
R536	3069473970	47k ohm		C1

Ref. No	Part No.	Description	Position
R537	3069103970	10k ohm	C1
R538	3069103970	10k ohm	B1
R539	3069473970	47k ohm	B1
R540,R541		Not used	
R542	3069332970	3.3k ohm	B/C4
• Others			
CON1	4428525800	Connector Plug 4P, BW-406, AC S-4	A2/3
CON2	4428525800	Connector Plug 4P, BW-406, AC S-4	D2/3
CNT1	436106148841	CNT Ass'y 6P, 5264,5395-0614, to Front PCB	B2
CNT2	436106148841	CNT Ass'y 6P, 5264,5395-0614, to Front PCB	B/C1
CNT3-1	4428525790	Connector Plug 3P, BW-306, AC S-3	B2/3
CNT3-2	4428525790	Connector Plug 3P, BW-306, AC S-3	C2/3
CNT4	4428508210	Connector Plug 2P, 5267-02A	B4
CNT5	4428505710	Connector Plug 3P, 5267-03A	C1
	4358906211	CNT Ass'y 6P, BL206-BL103 #16	
	4462000160	Speaker Terminal Ass'y 6P	
	6505120710	Brass Bar 4A	
	4002618700	Amp. P.C. Board	

Ass'y P.C.B Front

• Diodes

D601	2308220306	LED, SLR 54GC3, Green
D602	2308220109	LED, SLR 54URC3, Red

• Semi-Fixed Variable Resistors

VR601	3248050346	VR, 20K(B), RK14K1230301
VR602	3248050346	VR, 20K(B), RK14K1230301

• Switchs

SW601	4168008010	Switch Slide, SSSA042GA011
SW602	4168008010	Switch Slide, SSSA042GA011

• Capacitors

C601	3519101935	Ceramic	100 pF	50V	AXIAL	J	
C602	3479210071	Electrolytic	10 μF	50V	SA	M	
C603	3519101935	Ceramic	100 pF	50V	AXIAL	J	
C604	3479210071	Electrolytic	10 μF	50V	SA	M	
C605	3519101935	Ceramic	100 pF	50V	AXIAL	J	
C606	3479210071	Electrolytic	10 μF	50V	SA	M	
C607	3519101935	Ceramic	100 pF	50V	AXIAL	J	
C608	3479210071	Electrolytic	10 μF	50V	SA	M	

• Resistors (All Resistors are Carbon Film 1/5W J Type unless otherwise noted.)

R601~R608	3069222970	2.2k ohm

• Others

CNT601	4428505810	Connector Plug 6P, 5267-06A
CNT602	4428505810	Connector Plug 6P, 5267-06A
RCA601	4438105810	Jack RCA 2P
RCA602	4438105810	Jack RCA 2P
	8525008010	Holder LED
	4002618800	Front P.C. Board

Ref. No	Part No.	Description	Position

Ass'y P.C.B Power Supply

• Integrated Circuits

IC701	2138013118	μPC 494C, PWM Switching	A2/3
IC702	2168802001	LM 339, Quad Differential Comparator	C/D2

• Transistors

Q701	2028802002	FET	IRFZ 44		C1
Q702	2028802002	FET	IRFZ 44		A1
Q703	2028802002	FET	IRFZ 44		B1
Q704		Not used			
Q705	2028802002	FET	IRFZ 44		A4
Q706	2028802002	FET	IRFZ 44		C4
Q707		Not used			
Q708	2028802002	FET	IRFZ 44		B4
Q709	2208706001	NPN	KN 2222(A)		B2
Q710	2208706100	PNP	KN 2907(A)		B2
Q711	2208706100	PNP	KN 2907(A)		A2
Q712	2208706001	NPN	KN 2222(A)		A2
Q713	2208706001	NPN	KN 2222(A)		A3
Q714	2208706100	PNP	KN 2907(A)		A3
Q715	2208706100	PNP	KN 2907(A)		B3
Q716	2208706001	NPN	KN 2222(A)		B3
Q717	2208206105	PNP	KTA 1266(Y)		A2
Q718	2208606104	NPN	KTC 3198(Y)		A2
Q719,Q720	2208606104	NPN	KTC 3198(Y)		A3
Q721	2208606104	NPN	KTC 3198(Y)		A/B3
Q722	2208606104	NPN	KTC 3198(Y)		C3
Q723	2008617100	NPN	2SD 600F		C/D3
Q724	2208222101	PNP	DTA 114Y(S)		C3
Q725	2008617100	NPN	2SD 600F		C/D3
Q726		Not used			
Q727	2028802002	FET	IRFZ 44		B1
Q728	2028802002	FET	IRFZ 44		B4

• Diodes

D701	2058100136	Retifier	1N5402	200V/5A	Silicon	A1/2
D702	2058100136	Retifier	1N5402	200V/5A	Silicon	A2
D703,D704	2058100136	Retifier	1N5402	200V/5A	Silicon	A3
D705	2258522112	Zener	MTZ-6.2B	6.2V/500mW	Silicon	A3
D706	2058116105	Retifier	CTU32-S	250V/12A	Silicon	D1
D707	2058116106	Retifier	CTU32-R	250V/12A	Silicon	D1
D708	2058116105	Retifier	CTU32-S	250V/12A	Silicon	D4
D709	2058116106	Retifier	CTU32-R	250V/12A	Silicon	D4
D710,D711	2058522101	Switching	1N4148(M)	60V/500mW	Silicon	A2
D712	2258522124	Zener	MTZ-20B	20V/500mW	Silicon	A3
D713	2258522119	Zener	MTZ-12B	12V/500mW	Silicon	D3
D714,D715	2058522101	Switching	1N4148(M)	60V/500mW	Silicon	D3
D716	2058522101	Switching	1N4148(M)	60V/500mW	Silicon	C2
D717	2058522101	Switching	1N4148(M)	60V/500mW	Silicon	C4
D718		Not used				
D719	2058522101	Switching	1N4148(M)	60V/500mW	Silicon	D3
D720	2258522116	Zener	MTZ-9.1B	9.1V/500mW	Silicon	C3

• Coils

L701	2898000180	Choke Coil-Bar	A2
L702	2898000180	Choke Coil-Bar	A3
L703	2648601930	Choke Coil-Ring	D1
L704	2648601930	Choke Coil-Ring	D2
L705	2648601930	Choke Coil-Ring	D3
L706	2648601930	Choke Coil-Ring	D3/4

Ref. No	Part No.	Description	Position

• Negative Thermal Resistors

NR701	2438203003	50K(B), Thermistor, KT5D54F-C0055	C1
NR702	2438203003	50K(B), Thermistor, KT5D54F-C0055	C4

• Capacitors

C701	3479347031	Electrolytic	47 μF	25V	SG	M	A2
C702	3479347031	Electrolytic	47 μF	25V	SG	M	A3
C703	3679104297	Mylar	0.1 μF	63V	MINI	K	A2
C704	3419547202	Electrolytic	4700 μF	16V	HE	M	
C705	3679104297	Mylar	0.1 μF	63V	MINI	K	A3
C706	3419547202	Electrolytic	4700 μF	16V	HE	M	
C707	3679223120	Mylar	0.022 μF	100V		J	C1
C708	3679223120	Mylar	0.022 μF	100V		J	A2
C709	3679223120	Mylar	0.022 μF	100V		J	A3
C710	3679223120	Mylar	0.022 μF	100V		J	C4
C711,C712	3679104297	Mylar	0.1 μF	63V	MINI	K	D2
C713,C714	3679104297	Mylar	0.1 μF	63V	MINI	K	D3
C715,C716		Not used					
C717	3409310141	Electrolytic	100 μF	25V	SG	M	A3
C718,C719	3409322121	Electrolytic	220 μF	10V	SG	M	A2
C720	3679122120	Mylar	0.0012 μF	100V		J	A3
C721	3679104297	Mylar	0.1 μF	63V	MINI	K	A2
C722	3679103120	Mylar	0.01 μF	100V	J		A2
C723	3409310141	Electrolytic	100 μF	25V	SG	M	A2
C724	3479210071	Electrolytic	10 μF	50V	SA	M	
C725	3479347041	Electrolytic	47 μF	25V	SG	M	A3
C726	3679223120	Mylar	0.022 μF	100V		J	A3

• Resistors (All Resistors are Carbon Film 1/4W J Type unless otherwise noted.)

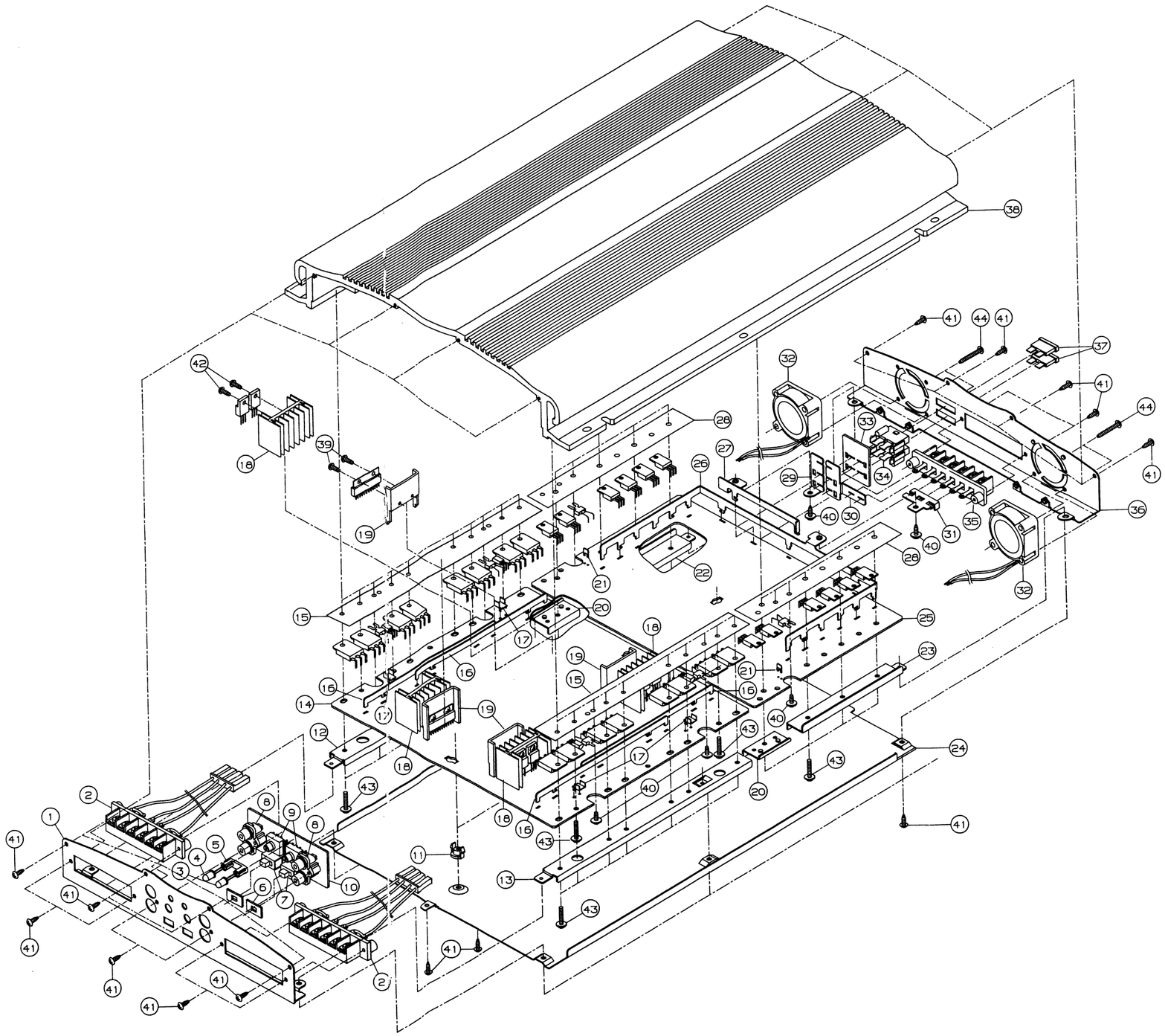
R701	3029100470	10 ohm	Metal Film 1W	C1
R702	3029100470	10 ohm	Metal Film 1W	A/B2
R703	3029100470	10 ohm	Metal Film 1W	A/B3
R704	3029100470	10 ohm	Metal Film 1W	C4
R705	3069221970	220 ohm		B1
R706	3069102970	1k ohm		B1
R707	3069221970	220 ohm		B1
R708	3069102970	1k ohm		B1
R709,R710		Not used		
R711	3069221970	220 ohm		A1
R712	3069102970	1k ohm		A1
R713,R714		Not used		
R715	3069221970	220 ohm		A4
R716	3069102970	1k ohm		A4
R717	3069221970	220 ohm		B4
R718	3069102970	1k ohm		B4
R719	3069221970	220 ohm		
R720	3069102970	1k ohm		C4
R721	3069102970	1k ohm		B2/3
R722	3069102970	1k ohm		A2
R723	3069102970	1k ohm		A3
R724	3069102970	1k ohm		B3
R725	3069183970	18k ohm		A3
R726	3069103970	10k ohm		A2
R727	3069104970	100k ohm		A2
R728	3069623970	62k ohm		A2
R729,R730	3069332970	3.3k ohm		A2
R731,R732	3069103970	10k ohm		A2
R733	3069222970	2.2k ohm		A3
R734	3069562970	5.6k ohm		A3
R735,R736	3069103970	10k ohm		A2
R737	3069471970	470 ohm		A2

Ref. No	Part No.	Description	Position
R738	3069332970	3.3k ohm	A3
R739	3069222970	2.2k ohm	A3
R740,R741	3069103970	10k ohm	A3
R742	3069102970	1k ohm	A3
R743	3069103970	10k ohm	D2
R744	3069471970	470 ohm	C3
R745	3069394970	390k ohm	C2
R746	3069222970	2.2k ohm	D2
R747	3069272970	2.7k ohm	D2
R748	3069472970	4.7k ohm	D2
R749	3069563970	56k ohm	C2
R750	3069243970	24k ohm	C2
R751,R752	3069123970	12k ohm	C2
R753	3069562970	5.6k ohm	C2
R754	3069103970	10k ohm	D2
R755	3069822970	8.2k ohm	C2
R756	3069273970	27k ohm	C2
R757	3069682970	6.8k ohm	D2
R758	3069102970	1k ohm	B2
R759	3069102970	1k ohm	B2/3
R760,R761		Not used	
R762,R763	3069330970	33 ohm	D3
R764~R767		Not used	
R768	3069221970	220 ohm	A4
R769	3069102970	1k ohm	B4
• Others			
FUSE701	5508724215	Auto Fuse 30A	
FUSE702	5508724215	Auto Fuse 30A	
FAN701	5558103210	DC Brushless Fan	
FAN702	5558103210	DC Brushless Fan	
T701	2888103630	Trans Ring, ø50	B1/2
T702	2888103630	Trans Ring, ø50	B3/4
CNT701	4428527590	Connector Wafer 6P, BW-206S, L-Type	D2/3
CNT702	436102203441	CNT Ass'y 2P, 5264,5395-0220, to AMP. PCB	A2
CNT703	436103403441	CNT Ass'y 3P, 5264,5395-0340, to AMP. PCB	B2
	6503023810	Brass Bar S-M	
	6505120610	Brass Bar S-P	
	6505120910	Guide Sensor	
	4002618810	Fuse P.C. Board	
	4002618900	Power Supply P.C. Board	
Accessory Kits			
	8099150201	Screw, HEX M SP/W 5×20Y	
	8159150203	Screw, #1WPTC 5×20B	
	8209550011	Nut Flange Toothed M5	

Note: RESISTOR/CAPACITOR TOLERANCE;
D: ±0.5%, J: ±5%, K: ±10%, M: ±20%, Z: +80%, −20%
For * Mylar is registered trademark of E.I Du Pont de Nemours and Company.

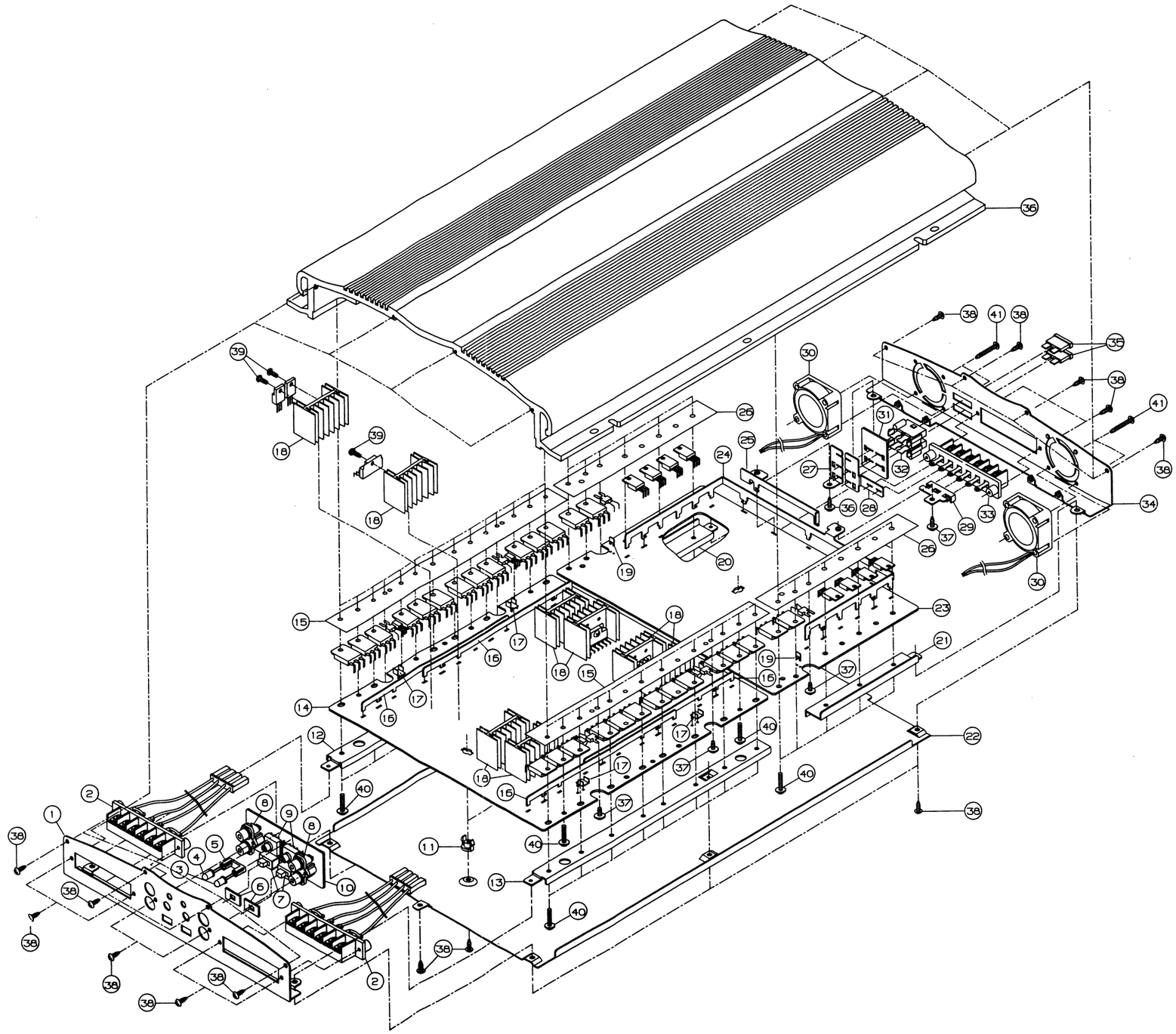
Exploded View Part List of Chassis (XAT-300Q)

Ref. No	Part No.	Description	Q'ty
1	046122023411	Chassis Front	1
2	4462000160	Speaker Terminal Ass'y 6P, BL-104	2
3	2308220109	LED, SLR-54URC3, Red	1
4	2308220306	LED, SLR-54GC3, Green	1
5	8525008010	Holder LED	1
6	6735008410	Cover Slide Switch	2
7	4618008010	Switch Slide SSSA042GA011	2
8	4438105810	RCA Jack 2P	2
9	3248050346	VR, RK14K1230301	2
10	4002619001	Front P.C. Board	1
11	8545100110	Support PCB	3
12	6503024310	Bracket TR 3A-L	1
13	6503024210	Bracket TR 3A-R	1
14	4002619000	AMP P.C. Board	1
15	1608500610	Silicon Rubber 3A	2
16	6505121710	Brass Bar 3A	4
17	6505120810	Guide TR	4
18	7505208310	Heat Sink TR	4
19	7505208410	Heat Sink TR	4
20	6505076210	Bracket Diode	2
21	6505120910	Guide Sensor	2
22	6505120210	Bracket TR S-L	1
23	6505120110	Bracket TR S-R	1
24	046061100911	Bottom Cover	1
25	4002618900	Power Supply P.C. Board	1
26	6503023810	Brass Bar S-M	1
27	6505120610	Brass Bar S-P	1
28	1608500510	Silicon Rubber – S	2
29	6505120310	Bracket Brass F-P	1
30	6505120510	Bracket Brass F-T	1
31	6505120410	Bracket Brass F-M	1
32	5558103210	DC Brushless Fan	2
33	4002619002	Fuse P.C. Board	1
34	4458400930	Auto Fuse Holder, H0448	2
35	4462000120	Terminal Ass'y 6P	1
36	046122023512	Back Chassis	1
37	5508724115	Auto Fuse 25A/32V	2
38	047501000211	Heat Sink XAT-300Q	1
39	8119930061	Screw #2PS 3×6Y	8
40	8159230061	Screw #2WPTC 3×6Y	10
41	8109230083	Screw #2BTC 3×8B	27
42	8119930081	Screw #2PS 3×8Y	8
43	8069130141	Screw WPM 3×14Y	24
44	8119430253	Screw #2BS 3×25B	4

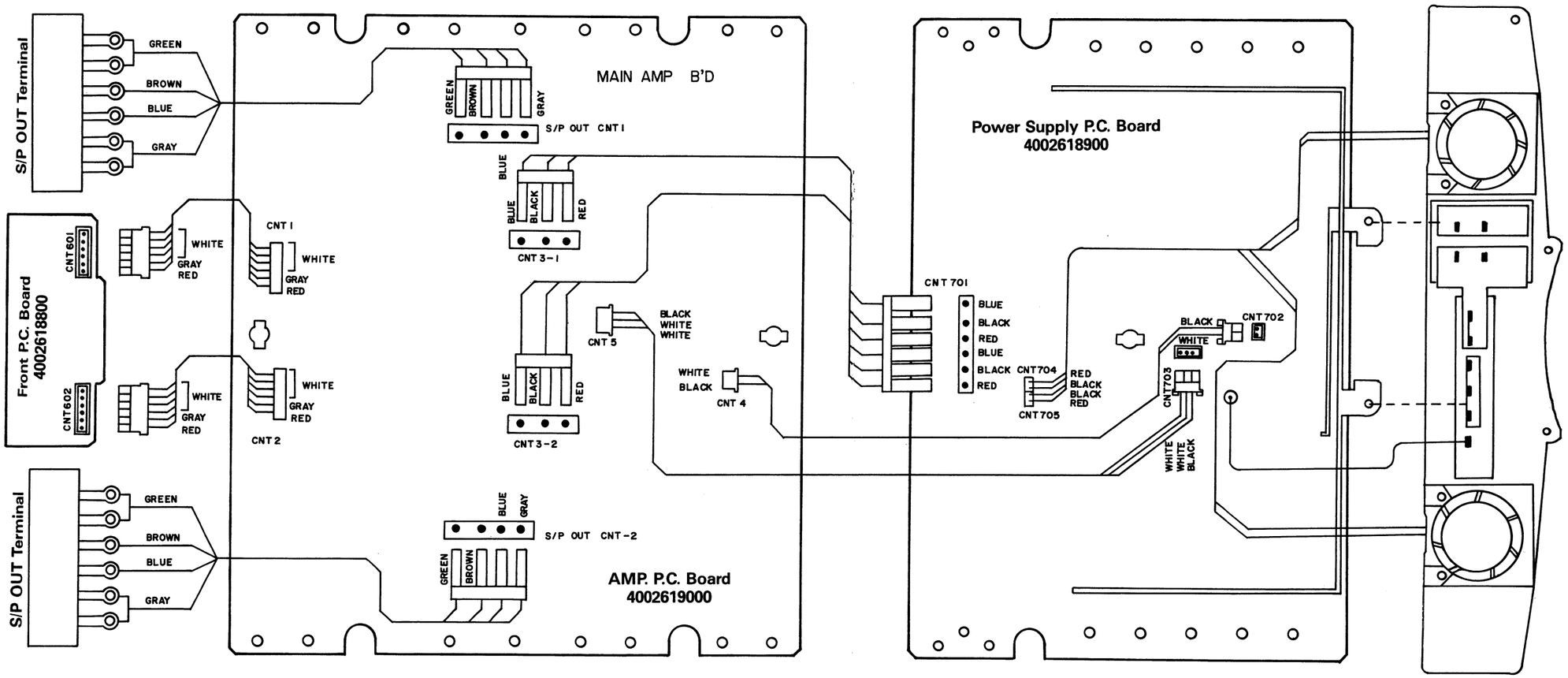


Exploded View Part List of Chassis (XAT-400Q)

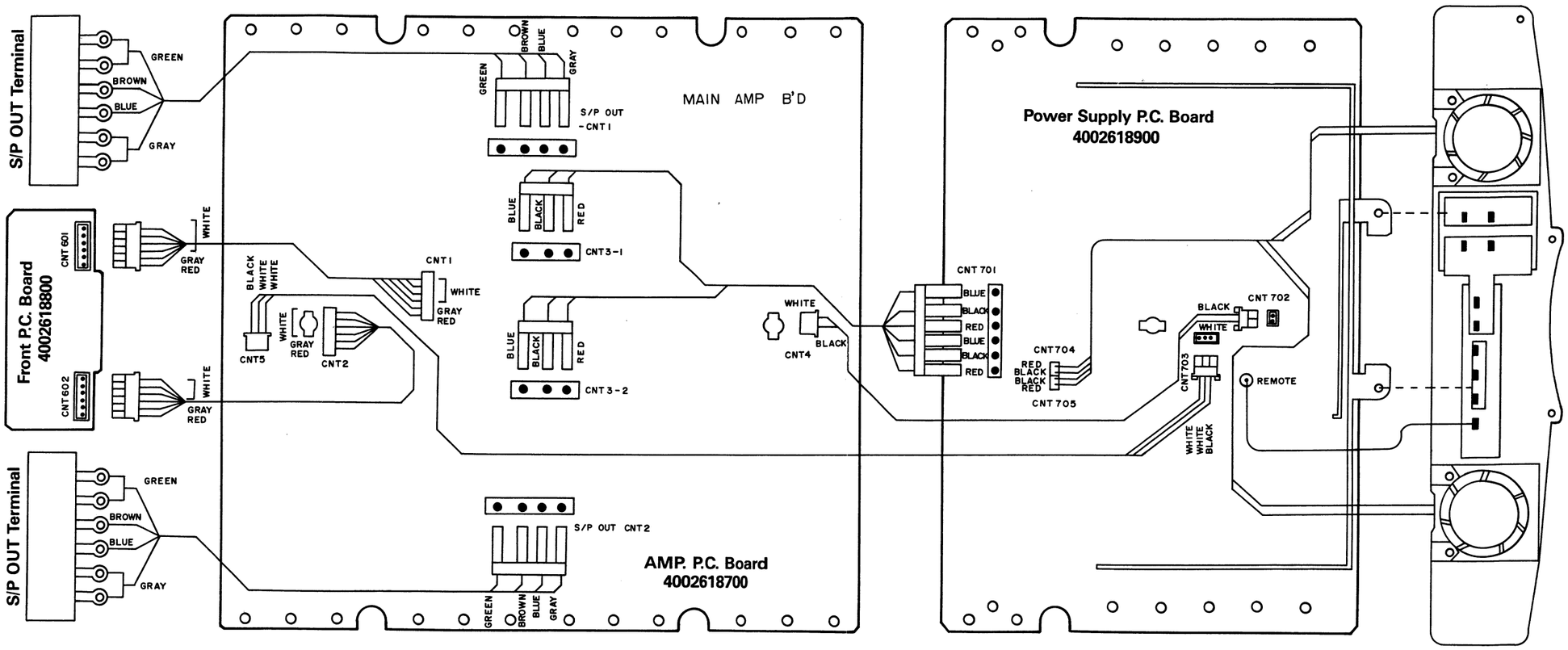
Ref. No	Part No.	Description	Q'ty
1	046122023411	Chassis Front	1
2	4462000160	Speaker Terminal Ass'y 6P, BL-104	2
3	2308220109	LED, SLR-54URC3, Red	1
4	2308220306	LED, SLR-54GC3, Green	1
5	8525008010	Holder LED	1
6	6735008410	Cover Slide Switch	2
7	4618008010	Switch Slide SSSA042GA011	2
8	4438105810	RCA Jack 2P	2
9	3248050346	VR, RK14K1230301	2
10	4002618800	Front P.C. Board	1
11	8545100110	Support PCB	3
12	6503024010	Bracket TR 4A-L	1
13	6503023910	Bracket TR 4A-R	1
14	4002618700	AMP P.C. Board	1
15	1608500410	Silicon Rubber 4A	2
16	6505120710	Brass Bar 4A	4
17	6505120810	Guide TR	4
18	7505208310	Heat Sink TR	8
19	6505120910	Guide Sensor	2
20	6505120210	Bracket TR S-L	1
21	6505120110	Bracket TR S-R	1
22	046061100811	Bottom Cover	1
23	4002618900	Power Supply P.C. Board	1
24	6503023810	Brass Bar S-M	1
25	6505120610	Brass Bar S-P	1
26	1608500510	Silicon Rubber – S	2
27	6505120310	Bracket Brass F-P	1
28	6505120510	Bracket Brass F-T	1
29	6505120410	Bracket Brass F-M	1
30	5558103210	DC Brushless Fan	2
31	4002618810	Fuse P.C. Board	1
32	4458400930	Auto Fuse Holder, H0448	2
33	4462000120	Terminal Ass'y 6P	1
34	046122023511	Back Chassis	1
35	5508724215	Auto Fuse 30A/32V	2
36	047501000111	Heat Sink XAT-400Q	1
37	8159230061	Screw #2WPTC 3×6Y	8
38	8109230083	Screw #2BTC 3×8B	27
39	8119930081	Screw #2PS 3×8Y	12
40	8069130141	Screw WPM 3×14Y	30
41	8119430253	Screw #2BS 3×25B	4



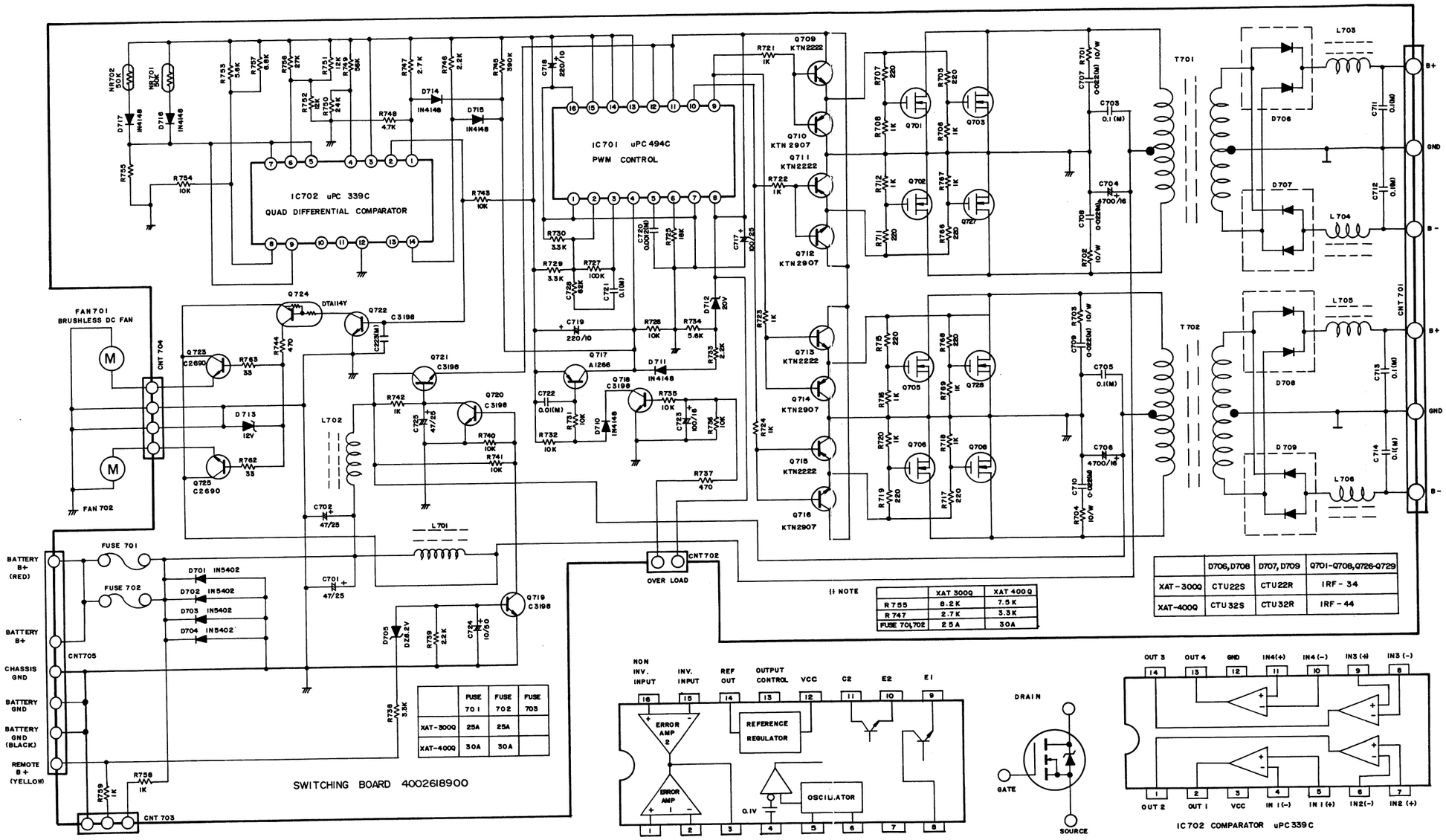
Point to Point Wiring Diagram (XAT-300Q)



Point to Point Wiring Diagram (XAT-400Q)



Schematic Diagram (XAT-300Q/XAT-400Q)

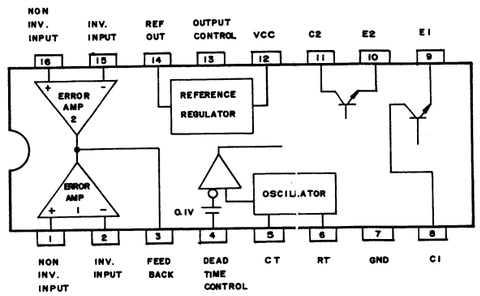


	FUSE 701	FUSE 702	FUSE 703
XAT-300Q	25A	25A	
XAT-400Q	30A	30A	

‡ NOTE

	XAT 300Q	XAT 400Q
R 755	8.2 K	7.5 K
R 747	2.7 K	3.3 K
FUSE 701,702	25 A	30A

	D706, D708	D707, D709	Q701-Q708, Q726-Q729
XAT-300Q	CTU22S	CTU22R	IRF-34
XAT-400Q	CTU32S	CTU32R	IRF-44



IC 701 PWM CONTROL uPC 494C

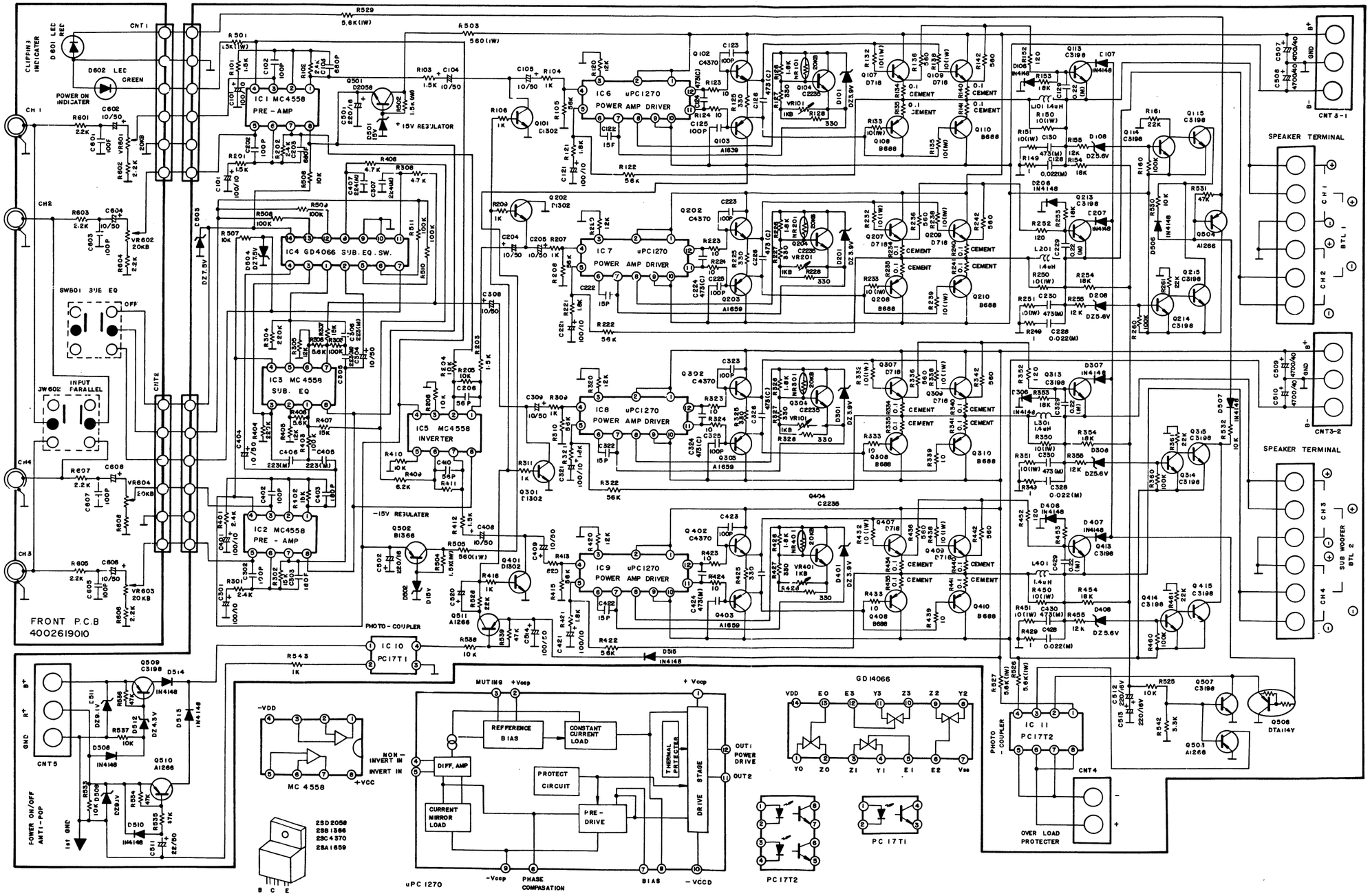
N-CHANNEL
IRF 34
IRF 44

IC 702 COMPARATOR uPC 339C

NOTES:

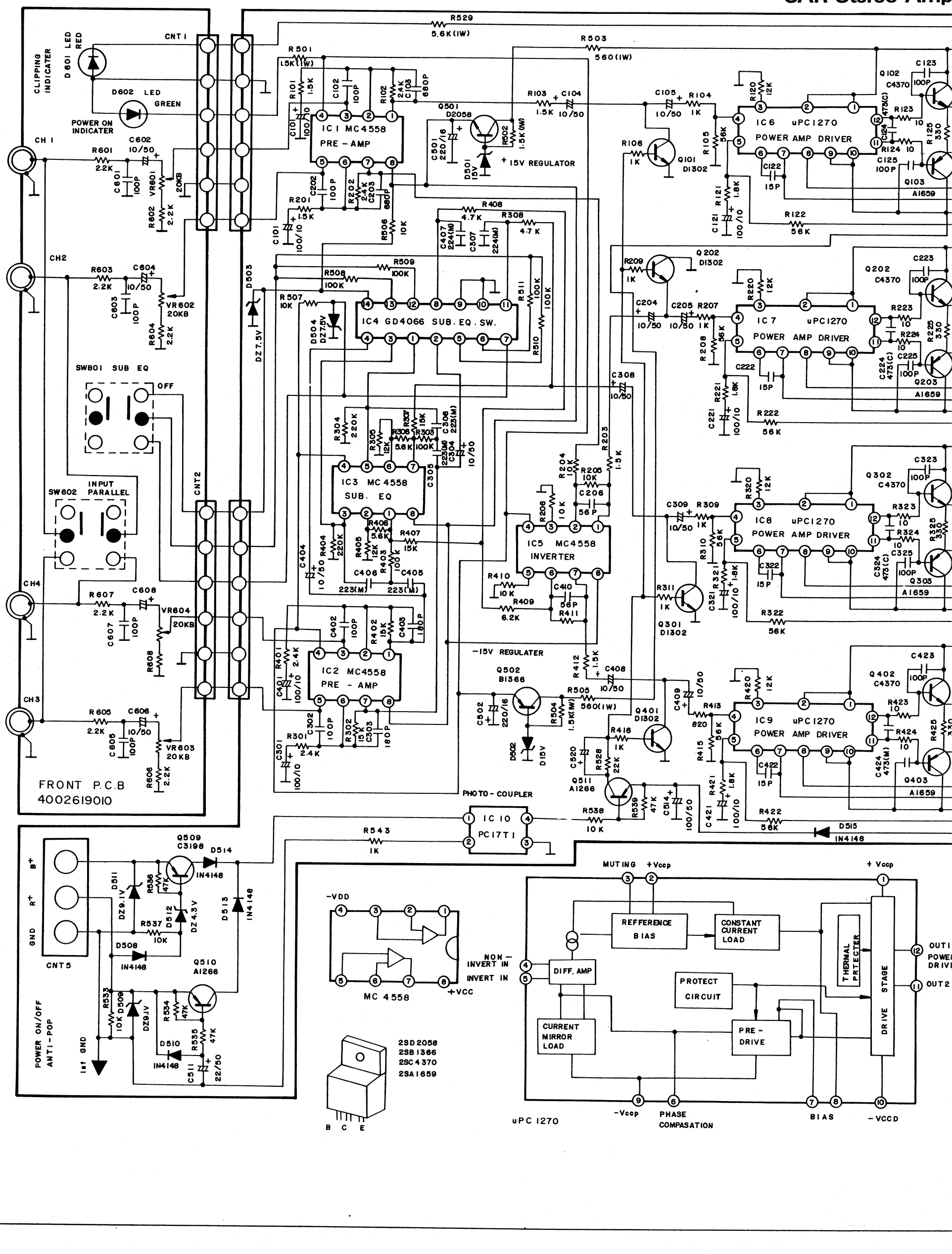
1. Resistance values are indicated in ohms unless otherwise specified.
   (K=1,000 M=1,000,000)
2. Capacitance values are shown in microfarads unless otherwise noted.
   (P=Micro-Microfarads)
3. Component values are subject to change without notices
4. All voltages are referenced to ground under the following conditions.
   DC; No signal except where indicated

Schematic Diagram (XAT-300Q)



Schematic Diag

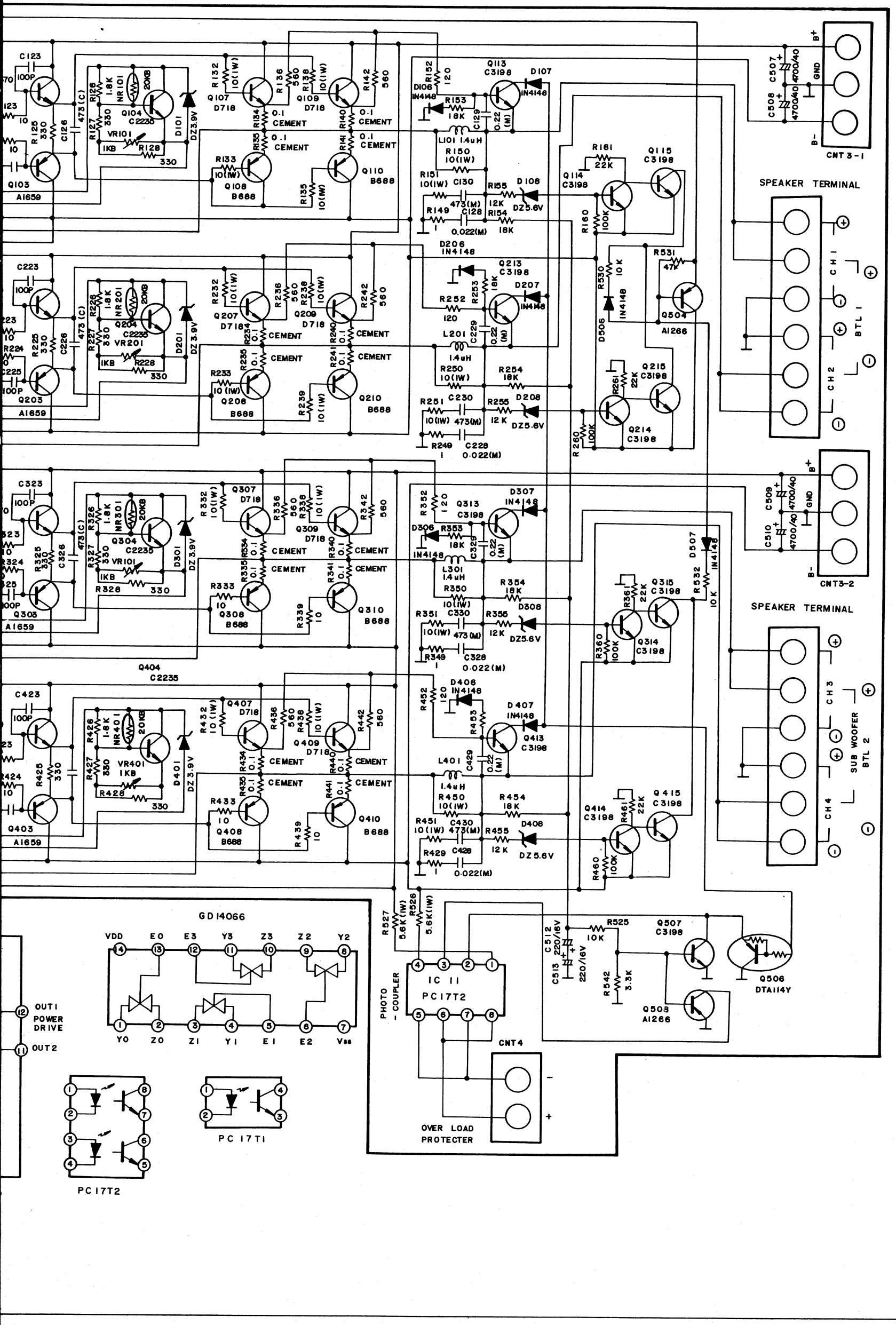
Model No.: XAT-3
CAR Stereo Amp



E F G

Diagram

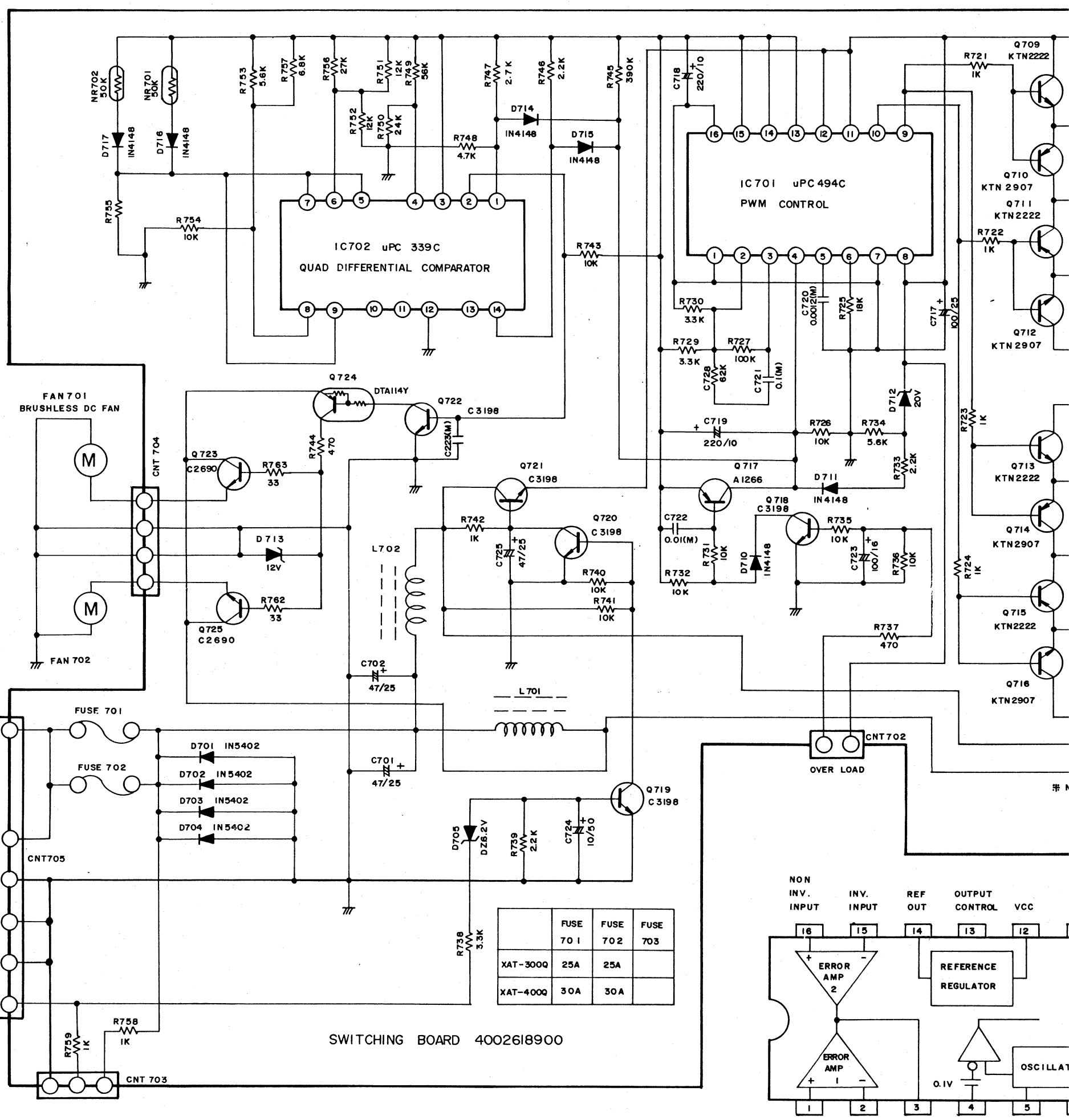
XAT-300Q
Amplifier



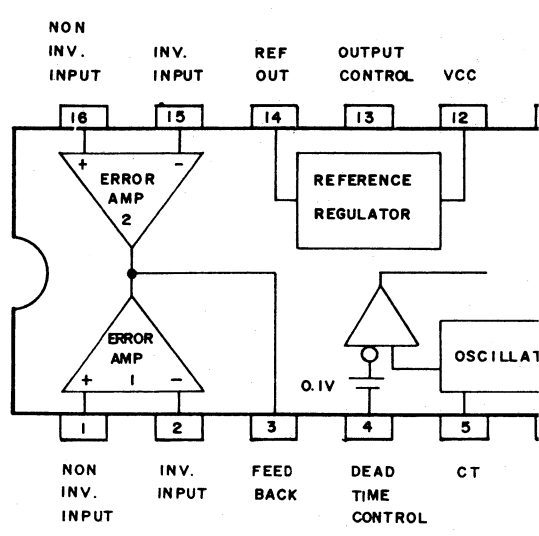
Schematic Diagra

Model No.: XAT-300Q/XAT

CAR Stereo Amplifie



	FUSE 701	FUSE 702	FUSE 703
XAT-300Q	25A	25A	
XAT-400Q	30A	30A	



IC 701 PWM CONTROL uPC 494C

NOTES:

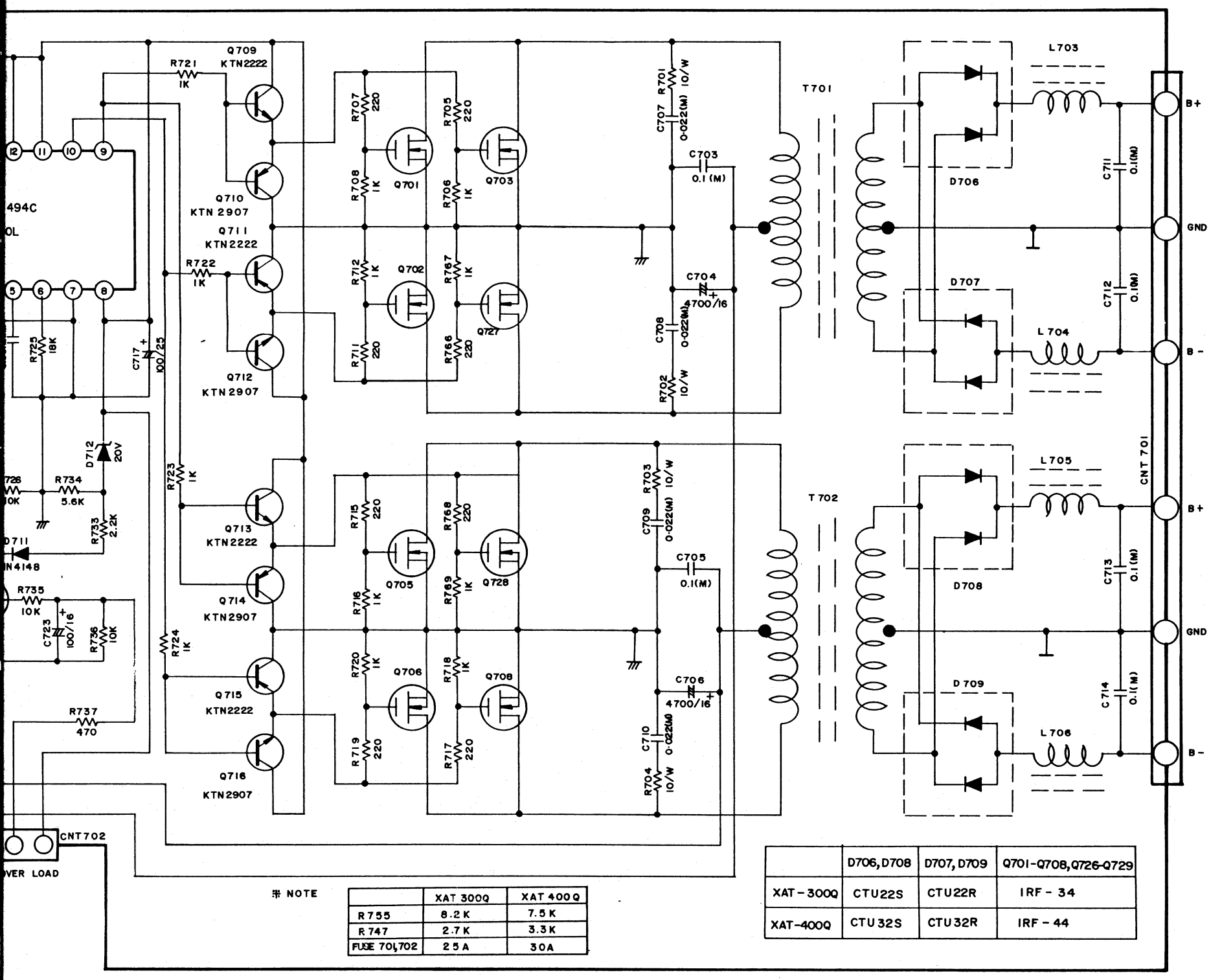
1. Resistance values are indicated in ohms unless otherwise specified.
   (K=1,000 M=1,000,000)
2. Capacitance values are shown in microfarads unless otherwise noted.
   (P=Micro-Microfarads)
3. Component values are subject to change without notices
4. All voltages are referenced to ground under the following conditions.
   DC; No signal except where indicated

D E F G

Schematic Diagram

del No.: XAT-300Q/XAT-400Q

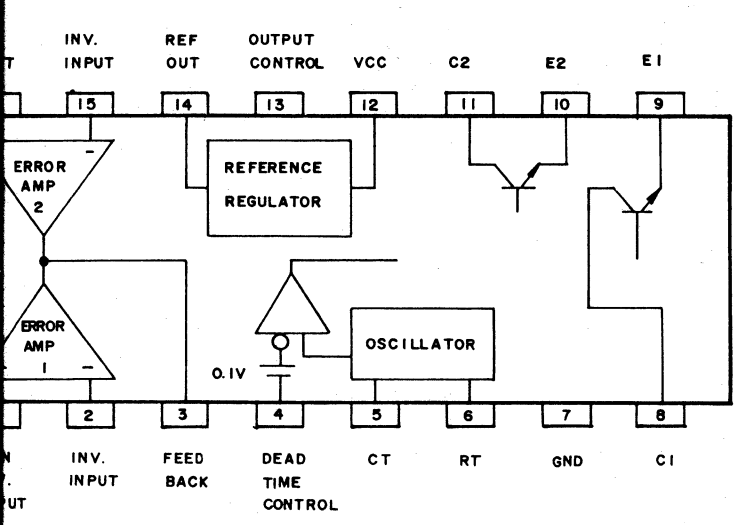
CAR Stereo Amplifier



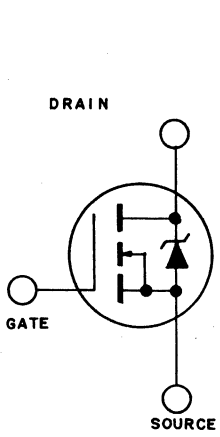
\# NOTE

	XAT 300Q	XAT 400Q
R755	8.2K	7.5K
R747	2.7K	3.3K
FUSE 701,702	25A	30A

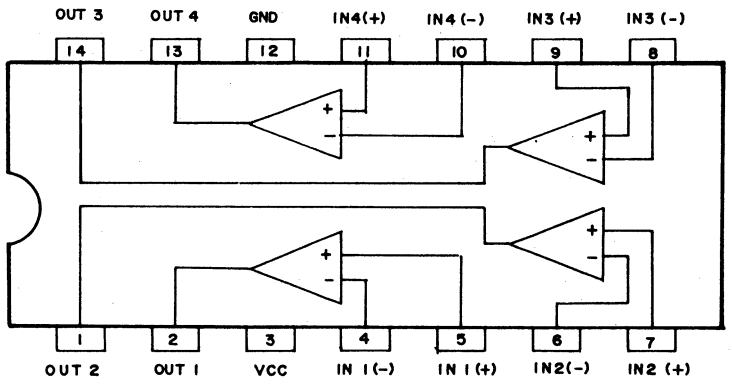
	D706, D708	D707, D709	Q701-Q708, Q726-Q729
XAT-300Q	CTU22S	CTU22R	IRF-34
XAT-400Q	CTU32S	CTU32R	IRF-44



IC 701 PWM CONTROL uPC 494C



N-CHANNEL
IRF 34
IRF 44



IC 702 COMPARATOR uPC 339C

Schematic Diag

Model No.: XAT-40
CAR Stereo Ampli

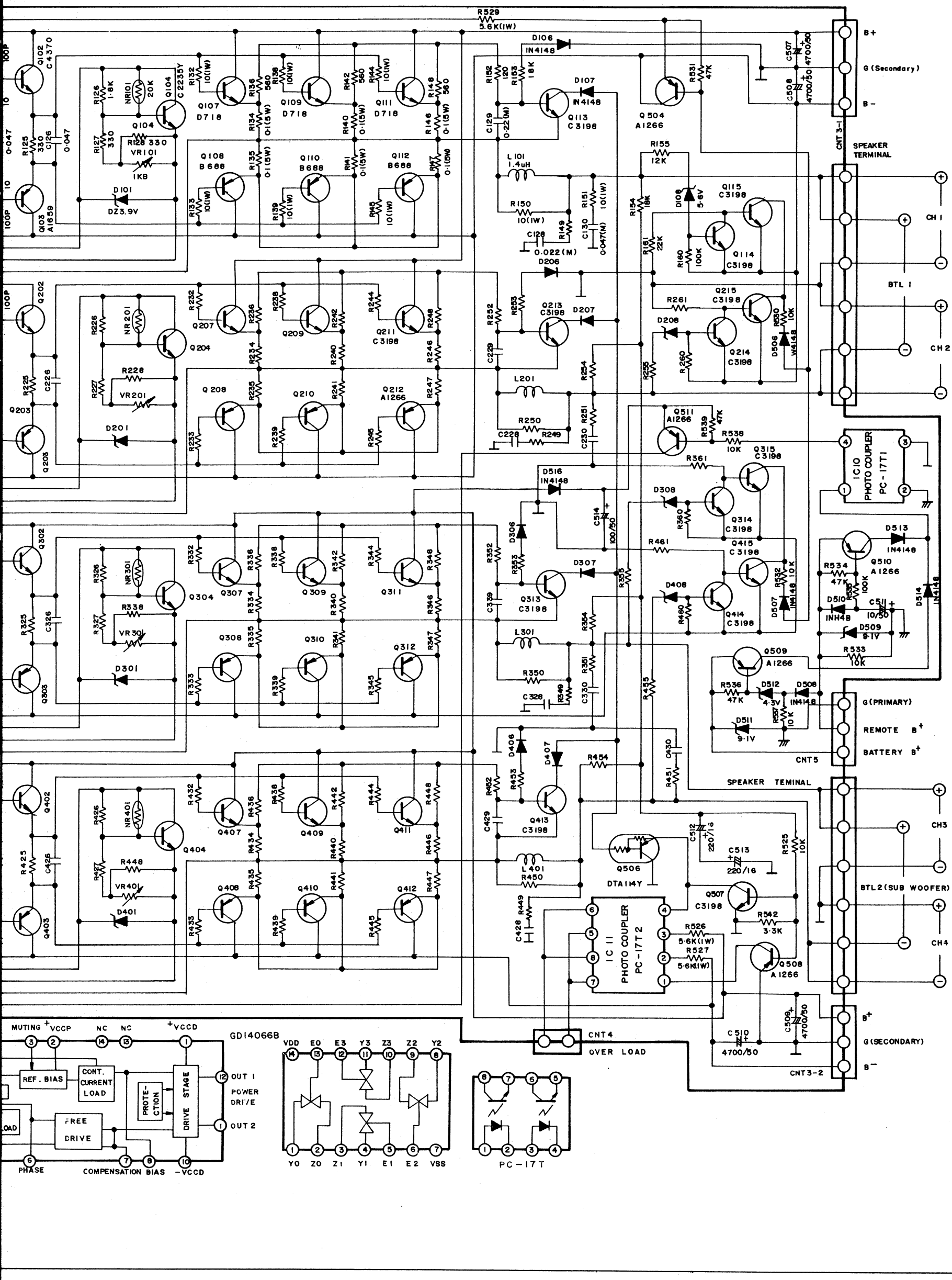
NOTES:

1. Resistance values are indicated in ohms unless otherwise specified.
   (K=1,000 M=1,000,000)
2. Capacitance values are shown in microfarads unless otherwise noted.
   (P=Micro-Microfarads)
3. Component values are subject to change without notices.
4. All voltages are referenced to ground under the following conditions.
   DC; No signal except where indicated

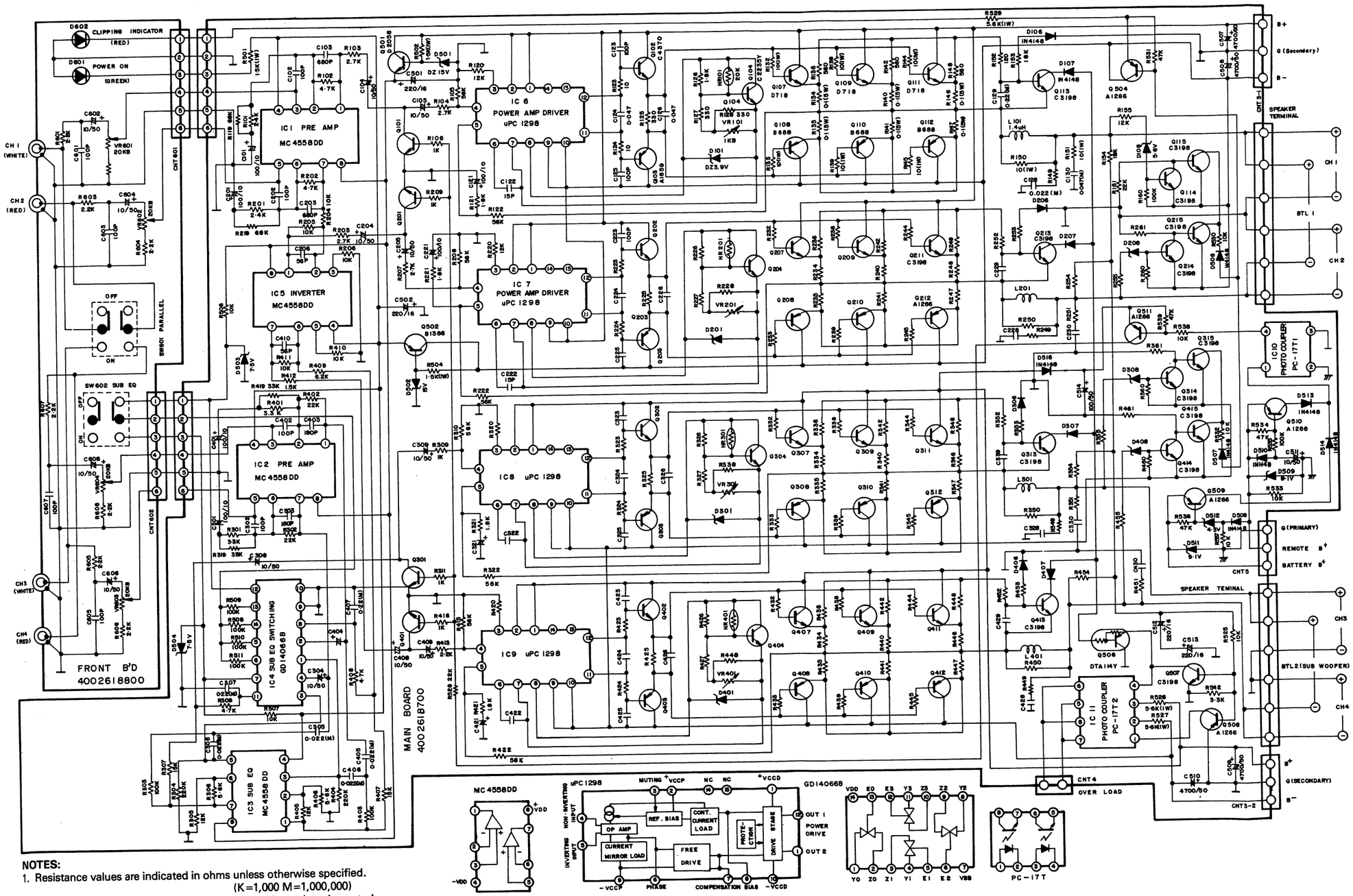
D E F G

chematic Diagram

Model No.: XAT-400Q
CAR Stereo Amplifier



Schematic Diagram (XAT-400Q)



NOTES:

1. Resistance values are indicated in ohms unless otherwise specified.
   (K=1,000 M=1,000,000)
2. Capacitance values are shown in microfarads unless otherwise noted.
   (P=Micro-Microfarads)
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